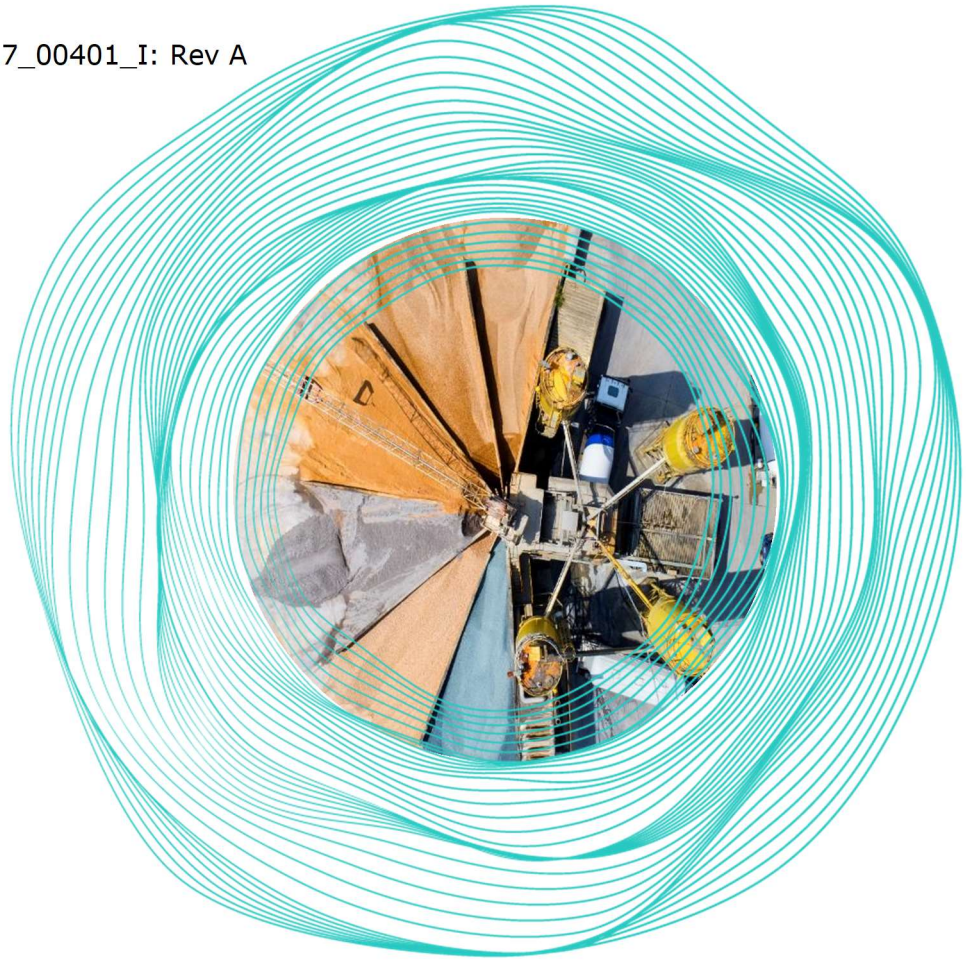
**CADENT GAS LIMITED**

# Environmental Assessment – Interpretative Phase 2 Site Investigation

## Brick Kiln Street, Hinkley

Document no. 415001-00017_00401_I: Rev A



June 2025

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Appendix E – Potential Sources of Contamination
Appendix F – Updated Conceptual Site Model

# Executive Summary

| | |
|---|---|
| **Scope of works** | This interpretative report considers the findings of the 2025 Worley Consulting site investigation and previous work stages, where relevant. Site data, including field logs and laboratory results are provided in the Worley Consulting Phase 2 Factual Site Investigation Report (June 2025 Ref: 415001-00017_00401_F). This interpretive report covers a Generic Quantitative Risk Assessment for both human health and controlled waters, as identified as a requirement for the site within the Worley Consulting Phase 1 Desk Study (December 2025, Ref: 415001-00017_004: Rev A).<br><br>This report provides a Conceptual Site Model (CSM) and recommendations for further work, mitigation measures or remediation, where potentially unacceptable risks are identified. The assessment considers the site for its proposed future use as a residential development with private gardens and areas of public open space. |
| **Conceptual Site Model and Risk Assessment** | <u>Area A</u><br><br>Potentially unacceptable risks to human health in relation to direct contact with metals (arsenic and lead) and possible vapour inhalation risks from benzene have been identified associated with the Made Ground within Area A. The source of benzene observed in vapour samples from VW25-04 is currently unclear.<br><br>A characteristic situation of CS2 is estimated due to carbon dioxide levels greater than 5 % (maximum 6 %), however the overall risk from ground gas to future site users and off-site site users within Area A is considered to be generally low.<br><br>Given the underlying unproductive strata, in combination with the concentrations encountered in both leachate and groundwater, and the distance to the Battling Brook, soils within Area A are not considered to be presenting an unacceptable risk to controlled waters (nearby surface water receptor of the Battling Brook or underlying groundwater aquifer).<br><br><u>Area B</u><br><br>There are considered to be potentially unacceptable risks to proposed residential end users from non-volatile contaminants within soils in Area B from physical contact pathways such as direct contact, ingestion and dust inhalation.<br><br>There is considered to be a potentially unacceptable risk associated with volatiles within both soil and groundwater (and NAPL) to future residential users of the site within Area B. Soil exceedances were encountered across the area, however groundwater exceedances were predominantly in the southern and southeastern site area. A hydraulic containment system is currently operating which reduces the flow of NAPL and dissolved phase off-site. It is also understood that residential properties down hydraulic gradient of Area B were fitted with vapour barriers. As such, the potential risks to off-site residents via off-site vapour inhalation is currently interpreted to be low.<br><br>A characteristic situation of CS1 can be adopted; overall, the risk from ground gas from both onsite and offsite users from Area B is considered to be low.<br><br>Hydrocarbon contamination has been identified within Made Ground associated with various former features within the process area and within former Gasholders 1, 2 and A; hydrocarbon contamination within Gasholder 3 appears to be lesser in comparison and was not significantly encountered within the Made Ground in Gasholder B.<br><br>Investigations onsite suggest that the integrity of the gasholder tanks and former below ground features may have been compromised when placing the foundations of the former buildings. Therefore, any contamination or ground gas arising from these former features is unlikely to be fully contained. The provision of proposed soft standing may allow for future overtopping and/or increased infiltration and mobilization of contamination. |

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| | Hydrocarbon contamination has been identified within the Wolston Sand & Gravel extending along the western boundary of the site, including free product (DNAPL) observed during monitoring at MW25-23B. A significant proportion (78.3%) of the total mass recovered by the hydraulic containment unit situated along the south-western boundary of the site is attributable to DNAPL, with mass still being recovered. Given the groundwater flow direction (west - southwest), hydrocarbon contamination may be arising from the former Gasholders 1 and 2 and migrating via groundwater in the Wolston Sand and Graves towards MW25-23B. Hydrocarbon contamination identified within Gasholder A and former process features (purifiers, scrubbers, etc.) is likely contributing to the NAPL identified within groundwater.<br><br>Elevated concentrations of contaminants have been identified within leachate and groundwater samples primarily within former features.<br><br><u>Area C</u><br><br>Potentially unacceptable risks to human health in relation to direct contact with Made Ground containing elevated lead concentrations have been identified. Given the concentrations encountered onsite, the risk to off-site human health is not considered to be unacceptable at this time.<br><br>Based on the data recorded to date, volatile contaminants within soil and groundwater in Area C are not considered to present an unacceptable risk to future users or offsite receptors. A characteristic situation of CS1 can be adopted; overall, the risk from ground gas within Area C is considered to be low.<br><br>No major source of contamination has been identified within the Made Ground, and thicknesses were generally less than 2 m. Given the concentrations of contaminants encountered in both leachate and groundwater, in combination with the cohesive Oadby Till below, and the distance to the Sketchley and Battling Brook's, soils within Area C are not considered to be presenting an unacceptable risk to the nearby surface water receptors. |
| **Conclusions and Recommendations** | Based on the findings of the 2025 intrusive investigation in combination with previous information, the Generic Quantitative Risk Assessment has highlighted potentially unacceptable risks to human health from shallow soils present across the site. Additionally, potentially unacceptable risks from soil vapours to future residential site users have been recorded within Areas A and B. Within Area B only, a potentially unacceptable risk to controlled waters has been identified.<br><br>To address identified potential risks to controlled waters (Secondary A Aquifer and nearby surface waters) from dissolved and free phase contamination within groundwater, completion of a Quantitative Controlled Waters Risk Assessment is recommended. This will provide a detailed risk assessment based on onsite concentrations in combination with hydrogeological and hydrological properties to further refine the conceptual site model and produce potential remediation criteria. The latter will inform what risk mitigation measures are likely to be required for the proposed development.<br><br>Potential human health risks to future residential site users and neighbouring properties can largely be mitigated through a combination of source treatment and implementation of development measures to break migration pathways and/or isolate receptors. Possible measures include vapour barriers in new buildings, use of barrier pipe for water mains and soil cover systems.<br><br>Given the potential risks, both to controlled waters and human health, it is recommended that a remediation options appraisal and outline remediation strategy is required. This will address areas of contamination identified within this (and previous) reports and provide a framework for possible risk mitigation works to render the site suitable for residential development. The strategy can then be used to the form the basis of future detailed remediation design and assessment of further works required once a detailed development plan has been agreed for the site. |

# 1. Introduction

## 1.1 Terms of Reference

Worley Consulting has been commissioned by Cadent Gas Limited (Cadent) to undertake a Phase 2 Ground Investigation at Brick Kiln Street, Hinckley, LE10 0NA (the 'Site'), as shown on Figure 1, in support of their Outline Planning (planning application: 24/00610/OUT) for the proposed erection of 195 dwellings (including affordable housing) with private gardens and areas of public open space.

The site comprises three separate land parcel areas as detailed below and shown on Figure 2:

- Area A (former car park in the north);
- Area B (majority of the site to the south of Area A); and
- Area C (smaller area of former car parking to the east).

The northern area is at a lower elevation and consists of hard standing car parking, with the southern area comprising former administrative buildings (demolished), operational land and roadways/parking.

An online source indicates that the land the gas works was built on was purchased in 1834, from when construction on the gas works commenced (Hinckleypastpresent, 2024). Gas was produced onsite until the 1960s, when the majority of the buildings associated with the gas works were demolished to make way for the former Cadent offices. Localised remediation works have occurred onsite and a groundwater hydraulic containment unit has been operating on-site along the southwestern boundary since 2009. The Cadent offices were demolished around 2022.

The assessment has been undertaken in general accordance with the processes and procedures for investigating and assessing land contamination, as outlined in Land Contamination: Risk Management (LCRM), published by the Environment Agency (2023); and other relevant industry best practice, as referenced.

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## 1.2 Objectives

The site investigation work was designed to assess ground and groundwater conditions beneath the site and, where applicable, investigate historical structures. The report documented herein presents a summary of the site history, environmental setting and investigation works undertaken.

This report supports the close out planning condition C174 (a) of the outline planning conditions (24/00610/OUT) and Point 1 of Condition 2 proposed by the Environment Agency for a proposed residential development. This assessment considers future use, assuming the

site will be redeveloped through the planning process for residential and public open spaces end uses. The proposed development plan is presented within Appendix A.

## 1.3 Scope of Works

This interpretative report considers the findings of the 2025 Worley Consulting site investigation and previous work stages, where relevant. Site data, including field logs and laboratory results are provided in the Worley Consulting Phase 2 Factual Site Investigation Report (June 2025 Ref: 415001-00017_00401_F).

This interpretive report covers a Generic Quantitative Risk Assessment for both human health and controlled waters, as identified as a requirement for the site within the Worley Consulting Phase 1 Desk Study (December 2025, Ref: 415001-00017_004: Rev A).

This report provides a Conceptual Site Model (CSM) and recommendations for further work, mitigation measures or remediation, where potentially unacceptable risks are identified.

The assessment considers the site for its proposed future use as a residential development with private gardens and areas of public open space.

In summary, the investigation work comprised:

- Drilling of 36 boreholes installed as a groundwater monitoring wells (MW25-01 to MW25-36) to a maximum depth of 14.7 m bgl;
- Excavation of 25 mechanically excavated trial pits (TP25-01 to TP25-25) to a maximum depth of 4.4 m bgl;
- Excavation of 21 vacuum excavated pits installed as vapour wells (VW25-01 to VW25-25) to a maximum depth of 1.5 m bgl;
- Excavation of 12 hand-dug pits,
- Three monitoring visits to assess groundwater, surface water, ground gas and vapour;
- Collection of 240 soil samples (including duplicates), 143 groundwater samples (including three trip blanks and 12 duplicates) and six surface water samples were collected.
- Collection of 60 vapour samples across three monitoring visits.

Further details are provided in the Worley Consulting Phase 2 Factual Site Investigation Report (June 2025).

## 1.4 Information Sources

This report makes use of publicly available information and Cadent supplied previous site investigations and risk assessments prepared for the site. Previous investigations and reports are summarised within the following report, which should be read in conjunction with this Phase 2 Site Investigation:

- Worley Consulting, December 2024, Phase 1 Desk Study – Brick Kiln Street, Hinckley, 41500-00017_004: Rev A

Since the production of the aforementioned Desk Study, the following reports have also been provided:

- Celtic, June 2008, Phase 1 Design Assessment Report (Draft), R1191/08/3390
- Celtic, September 2018, Land Contamination Risk Assessment, R1738/18/4916-DRAFT
- Englobe / Biogenie, Series of Groundwater Hydraulic Containment System Progress Reports:
    - Englobe, Quarter 2 2023 (November 2023): R1886/23/5350 draft 2
    - Englobe, Quarter 3 2023 (November 2023): R1886/23/5361 draft 1
    - Englobe, Quarter 4 2023 (June 2024): R1886/23/5382 draft 1
    - Biogenie, Quarter 1 2024 (September 2024): R1886/24/5414
    - Biogenie, Quarter 3 2024 (February 2025): R1886/25/5459
    - Biogenie, Quarter 4 2024 (February 2025): R1886/25/5460

Full report references are provided within Section 10, with summaries of previous reports presented within Appendix B.

## 1.5 Legislative Framework

This report has been prepared in general accordance with the legislative regime outlined in Part 2A of the Environmental Protection Act (1990) and the statutory guidance issued in April 2012. The assessment has been made using an overall risk-based approach to the identification of land where contamination poses a significant risk to human health or the environment.

The site will also be assessed under the planning regime (regulated through the Local Authority development and control system). The key legislation applicable is the Town and Country Planning Act, 1990. Planning guidance relating to the development of land potentially affected by contamination is detailed in the National Planning Policy Framework (NPPF), which came into force in March 2012.

The statutory definition of contaminated land is provided in Part 2A of the Environmental Protection Act (EPA) 1990 (Part 2A). This does not include land that is already regulated through other means, such as Waste Management Legislation or The Environmental Permitting Regulations 2010. The statutory definition of contaminated land provided by Part 2A has also been used in the assessment of future site usage and includes the updated statutory guidance issued in April 2012 (Defra 2012).

Land is defined as contaminated when:

a) *Significant harm* is being caused or there is a *significant possibility of such harm being caused*;

b) *Significant harm* is being caused to non-human receptors (ecological systems and/or property as defined in Table 1 and Table 2 of the Statutory Guidance) or there is a *significant possibility of such harm* being caused; or

c) *Significant pollution* of controlled waters is being caused, or there is *a significant possibility of such pollution* being caused.

# 2. Summary of Preliminary Risk Assessment Information

## 2.1 Site Information and Environmental Setting

Key site information is summarised in Table 1 below. Full details and supporting information are provided in the accompanying Worley Consulting Factual Report (referenced in Section 10). A location plan is included as Figure 1 and the current site layout is shown on Figure 2.

*Table 1 Site Information*

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|---|---|
| **Site Location/ Description and Current Site Use** | The site is primarily accessed through double palisade gates located off Brick Kiln Street in Hinckley at National Grid Reference 442126, 293683. Up until recently, the site was referred to as Hinckley Operational Centre and was used as Cadent offices with associated parking and roadway infrastructure. However, most of these buildings have since been demolished. Former footings are present across the site, with a handful of buildings remaining onsite. The site is currently a largely cleared brownfield site with car parking. The boundary was assessed to be in good condition. The site is considered to be secure due to fencing and onsite security in the form of CCTV.<br><br>Two significant changes in topography falling to the north are present between Area B and A, and between Block 3 and Block 4, characterised by vegetated embankments. Area A is generally flat and sits at an elevation of 108 m Above Ordnance Datum (m AOD), it is topographically lower than Area B which sits at an elevation of around 111 m AOD.<br><br>Photos of the general site area are presented within Worley Consulting's Desk Study (2024).<br><br>Due to the size of the site, variable nature of geology and location of historical features, the site has been divided into three areas: Area A, Area B and Area C.<br><br><u>Area A</u><br><br>The following description should be read with reference to Figure 2A. Area A generally comprises a former car park. The area is largely vacant of buildings with the exception of a temporary building towards the central-west of the area. The area is accessed via ramps or steps from Area B in the south. EV chargers were noted along the eastern boundary and soft standing was present around the northern, western and eastern perimeter of the site. Car parking spaces comprised both gravel and tarmacadam surfacing. A pedestrian entrance to Area A was noted in the western corner, via the neighbouring Gymnastics Centre. A storage area is present nearby, mainly housing de-icing salt. A square brick feature was also visible within this area.<br><br><u>Area B</u><br><br>The following description should be read with reference to Figure 2B. The site is accessed via Brick Kiln Street in the east of Area B via a set of locked double gates. Immediately to the west is the former Security Lodge (demolished – floor tiling and concrete foundations remaining in situ) and existing HV Switch Room. Three manhole covers were observed within the vicinity, which would indicate a potential interceptor, though the covers were not lifted. North of the entrance gates is the former admin garage/stores (demolished – concrete foundations & associated infrastructure remaining in situ) and beyond a former car parking area. Three manhole covers were also observed within this area, which would indicate a potential interceptor, though the covers were not lifted. Heading southwest is the demolished Block 1 (demolished – majority of the concrete foundation remaining in situ with the exception of a large water filled excavation in the east), existing brick building, former tank location (observed to be concrete surfacing) and wooded area. |

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| | A hydraulic containment system managed by Biogenie was observed within the west of Area B. Various manhole covers were observed along the southern and southwestern boundary of Area B, and temporary cones within the wooded area were marking out borehole locations. These are likely to be associated with the firmer investigations and hydraulic containment system.<br><br>To the north of the former Block 1 and hydraulic containment system compound lies the remnant concrete foundations of the former Block 2, Block 3, Block 3A and Block 5. The former pond is no longer present, with gravel surfacing now present. Various concrete foundations were also observed at the former uninterrupted power supply (UPS) Room, Diesel Generator and Electrical Sub Station along the western boundary Brickwork was also visible at the former Electrical Sub Station, housing underground services. An elevation change marked by a vegetated embankment led northward and down to the former Block 4 (demolished – concrete foundations remaining in situ).<br><br>The majority of Area B comprises hardstanding (concrete foundations or tarmacadam) with some localised areas of gravel or rubble. Soft standing is present along the southern and western perimeters (including a wooded area in the south). Additionally, a water filled excavation is suspected to extend into the Made Ground. The HV switch room and brick building in the south are the only permanent buildings remaining on-site.<br><br>Area C<br><br>The following description should be read with reference to Figure 2B. Area C is located to the east of Area B and forms a former car park area surfaced with tarmacadam hardstanding. A gravel area with various former concrete foundations was observed within the west of Area C. The neighbouring Lidl car park to the south was noted to be approximately 2 m below the level of the site and separated with a wooden fence and landscaped embankment. The gas governor is the only building remaining on-site. |
| **Adjacent Land Use** | Adjacent land uses in relation to the site comprise the following:<br><br>• **North and northeast**: Residential properties and Park Play Area<br><br>• **Southeast:** Lidl supermarket and associated car park, The Meeting Centre, and a vacant plot of land beyond this. A radio mast is present between Area B and C.<br><br>• **South**: Coventry Road, residential properties, and Granville Road Park.<br><br>• **West:** Clarendon Park, residential properties and Hinckley Gymnastics Club. |
| **Site History** | The site formed Hinckley Gas Works and is shown on historical mapping from the 1870s and remained operational up to the 1960s when gas production ceased at site. Gasworks infrastructure was generally located in Area B, with one above-ground gasholder (No. 4) within Area C. Area A remained largely undeveloped prior to the construction of the car park. Demolition of the gas works infrastructure began in 1968 and the office buildings and roadway infrastructure constructed by 1972. Full details are presented within the Worley Consulting Factual Report. |
| **Geology** | Made Ground: Worley Consulting (2025) encountered Made Ground with varying quantities of anthropogenic material to depths of between:<br><br>• 0.5 and 1 m bgl within Area A<br><br>• 0.8 and 2.6 m bgl outside former structures and between 0.6 and 9.45 m bgl within former structures within Area B<br><br>• 0.4 and 2 m bgl within Area C<br><br>Superficial geology:<br><br>BGS (2024) records Wolston Sand & Gravel Formation (also called Wigston Sand and Gravel Member) across the southern and central area of Area B, and running along the eastern boundary of Area A. Previous investigations encountered Boulder Clay and Wolston Sand and Gravel |

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| | underlying the made ground up to 6 m in thickness in the central area of the site. Running sands are reported in the northeast of the site. Wolston Clay Member (also called Bosworth Clay Member) is also mapped in the northwest (Area A). Previous investigations encountered Wolston Clay Member underlying the made ground in the northwest of the site up to 14 m in thickness. Oadby Till Member (Diamicton) is recorded in the east of Area C. Previous investigations encountered the Oadby Member beneath the made ground at thicknesses of up to 2 m in the east of the site. Thrussington Till may be present underlying the aforementioned deposits (based on 1991 geological mapping).<br><br>The geology of the local area indicates that the Wolston Sands and Gravel outcrop terminates at a spring line towards the north of the site, where the sands and gravels rest on less permeable Wolston Clay strata. The location of the spring line is reported to be associated with running sands (Celtic, 2003).<br><br>Worley Consulting (2025) encountered the following superficial geology:<br><br>• Area A: Wolston Clay Member comprising grey / brown clay, silt and sand extending below 14.7 m bgl. Wolston Sand and Gravel (yellowish brown sand) within the southeastern corner only extending below 1.5 m bgl.<br><br>• Area B: Boulder Clay comprising sandy, silty, gravelly clay in the west to between 1.2 and 7.9 m bgl over Wolston Sand and Gravel comprising brown / red / orange sand and gravel to between 3.2 and 10.2 m bgl. Wolson Clay Member was encountered below, comprising clay and silt laminated in part with sand bands and lenses to beyond 11 m bgl.<br><br>• Area C: Oadby Till Member comprising grey brown clay to between 3.7 and 5 m bgl. Wolston Sand and Gravel (reddish orange / light brown sand) extending below 10.2 m bgl.<br><br><u>Bedrock geology:</u> The bedrock beneath the site is reported to comprise the Merica Mudstone Formation which is described as "red gypsiferous mudstone of the Triassic, with siltstone and sandstone bands, dipping gently to the southwest" (BGS, 2024). The Worley Consulting 2025 investigation did not encounter bedrock. |
| **Hydrogeology** | • The Wolston Sand & Gravel Member (Wigston Sand and Gravel Member) is classified as a *Secondary A Aquifer*.<br><br>• The Wolston Clay Member (Bosworth Clay Member) is classified as *Unproductive Strata*.<br><br>• The Oadby Till Member and Thrussington Till is designated as a *Secondary Undifferentiated Aquifer*.<br><br>• The Bedrock formation of the Mercia Mudstone Formation is designated as a *Secondary B Aquifer*.<br><br>The groundwater regime at the site is considered complex and is influenced by the geology, topography and below-ground structures and services present at the site. A report completed by Celtic (2011) concluded that groundwater flow is predominantly within the Wolston Sand and Gravels with minimal (negligible) flow within the other predominantly cohesive deposits. Groundwater flow direction is considered to be in a predominantly west to southwest direction in the southern portion of the site, towards Sketchley Brook. In Area A, beyond the spring line, Celtic (2005) interpreted the flow of perched water within the made ground overlying the Wolston Clay to be to the northwest towards Battling Brook. No groundwater flow was expected to occur within the Wolston Clay due to its high-clay matrix.<br><br>In 2008, Celtic produced a groundwater modelling report which concluded that a 'relatively high proportion' of the overall groundwater flow is likely to be within the drift deposits rather than the bedrock. There is overall uncertainty over the groundwater flow direction at the site.<br><br>The site is not located within a Source Protection Zone, however, licensed groundwater abstractions are present within 1 km of the site (detailed below). |
| **Hydrology** | Surface water run off at the site is primarily intercepted by the complex system of drains |

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| | throughout both areas of the site, in particular within the northern area in the car park. Historical plans show that the north of the site formerly drained from the spring line over ground via drainage ditches passing through a reservoir and settling pond to the Battling Brook. It is possible that these features were incorporated into the current foul/stormwater drainage infrastructure. Although not indicated on the BGS 1:10,000 map, it is possible that this spring line continues through the site along the geological boundary, hence water emanations may be occurring between building Blocks 3 and 4 from behind the retaining wall. The presence of the spring line causing running sands along the embankment in the north-east of the site necessitated the need for drainage channels beneath the car park in the north, discharging directly to perched water in a north-westerly direction (Celtic, 2003). The car park hardstanding has been known to crack, suspected to be due to the pressure from upwelling waters. This may be from groundwater overtopping the flow divide on the southern boundary of the site at a spring line (Wood, 2020).<br><br>A pond was located on-site between building Blocks 2 & 3, however, during the recent site walkover completed in November 2024 it was noted to no longer be present. This was previously described as an aesthetic feature with fish (Celtic, 2005).<br><br>The nearest surface water feature is the Battling Brook, which is located approximately 100 m north of the site and flows to the southwest towards the Ashby-de-la-Zouch Canal (1.4 km southwest of the site) and to the River Anker beyond (5 km southwest of the site). Sketchley Brook is located approximately 700 m south of the site and flows to the southwest, similar to the Battling Brook. Monitoring points from the Battling Brook could not be found on the Environment Agency web site, however data from Sketchley Brook shows it to be of moderate ecological status (EA, 2019). |
| **Summary of Previous Works** | Reports providing details on previous investigations and works pertaining to the site have been made available to Worley Consulting for review. Due to the number of previous works undertaken, a summary of each report is provided within Appendix B, with relevant information extracted and included throughout the body of this report. Previous site investigation locations are presented on Figures 4A and 4B. It should be noted that sections have been redacted from several of the reports and some factual information (including intrusive logs) have not been provided. A summary of known remedial works is presented below:<br><br>• Creosote and coal tar was detected in soils and groundwater during excavation of a sewer - the sewer was replaced, and contamination removed as Special Waste (Celtic, 1998).<br><br>• Remediation works occurred in 1993 to the south-west of Block 2 during Capital Project 241. The works included the removal of a tar well to the south of Block 1 (presumed to be Gasholder B), a rectangular tar tank to the south of Block 2 and tar-impacted soils believed to be surrounding Gasholder A (Celtic, 1999). A 'permanent aerobic treatment system' may have been installed however details are unknown. Anecdotal evidence presented within Celtic (1993) indicates that waste material and tar was removed from Gasholders A, B, 1 and 2 prior to construction of Block 1.<br><br>• A hydraulic containment unit was constructed by Celtic in 2009 to treat dissolved and free-phase contamination in groundwater at the southern boundary and to mitigate off-site migration. A review of the system in 2018 suggested that, generally, concentrations of Volatile Organic Compounds (VOCs) had reduced significantly between 2008 and 2018, however concentrations of heavy molecule TPH Fractions and PAH Compounds had not reduced significantly, and some had increased. The report noted that as NAPL is still being recovered, it indicates that a significant source remains. The most recent progress report (Q4 2024) noted that approximately 1,578 kg calculated dissolved phase hydrocarbon mass, 12,184 kg DNAPL and 1,793 kg LNAPL product has been recovered via the hydraulic containment system since the start of the project. A significant proportion (78.3%) of the total mass recovered was attributable to DNAPL. |

# 3. Initial Conceptual Site Model

## 3.1 General

An initial Conceptual Site Model (CSM) was produced for the site within Worley Consulting's Desk Study (2024). The CSM was based on the findings of the previous phases of investigation and information pertaining to the environmental setting and history of the site.

The CSM considers the plausible relationship between potential contaminant sources, pathways and receptors, and assesses the site based on a proposed future use as a residential development with private gardens (allowing for ingestion of vegetables) and areas of public open space. The risk rating assigned to each linkage has been based on guidance given in the CIRIA document 'C552 Contaminated Land Risk Assessment: A Guide to Good Practice' (CIRIA, 2001). A qualitative assessment of the likelihood of an event occurring and the severity of the possible consequences has been provided for each contaminant linkage, in accordance with the guidance. Overall risk ratings accord with the definitions given in the SGN Risk Rating Table. CIRIA definitions and the SGN Risk Rating Table are provided in Appendix C.

A description of potential contaminant sources and receptors considered in the initial CSM is provided below.

## 3.2 Contaminant Sources

The Desk Study (Worley Consulting, 2024) identified the following potential contaminant sources.

**Sources on-site**

- Made ground (including within areas of demolished buildings and structures not detailed below)
- Asbestos within soils
- Former refuse tip (and infilled gravel pit)
- Infilled Gasholder A and B tanks (including residual tar and contained waters)
- Infilled Gasholder 1 tank (sub-surface structure including contained waters)
- Infilled Gasholder 2 tank (sub-surface structure including contained waters)
- Infilled Gasholder 3 tank (sub-surface structure including contained waters)
- Gasholder 4 (above ground structure with potential below ground footings)
- Primary purifiers
- Oxide shed
- Benzol washer
- Boiler house

- Diesel tanks
- Purifier catch boxes
- Scrubbers
- Condensers
- Retort houses
- Exhauster/pump house
- CWG Plant
- Settling tanks (1968)
- Reservoir (1924)
- Diesel generator
- Electricity substations
- Coke tip
- NAPL in sand and gravels (Area B)
- Contaminated groundwater in sand and gravels
- Hotspots of free phase product (NAPL) within made ground deposits to the west of Blocks 1, 2, and 3 (some of which may be associated with former cast iron square tar tank)

**Off-site sources:**

- Former Dye Works/ Hosiery Factory
- Printing & Packaging Works

## 3.3 Sensitive Receptors

This assessment considers future use, assuming the site will be redeveloped through the planning process for residential and public open spaces end uses. Potential receptors considered in the initial CSM are detailed below:

- Future site users – residential with private gardens (allowing for ingestion of vegetables)
- Future site users – public open space (attenuation ponds and landscaped areas)
- Off-site residential properties (surrounding the site)
- Off-site commercial workers (primarily to the southeast)
- Off-site public open space (park) users (Clarendon Park in the northeast and Granville Road Park in the south)
- Groundwater (principally the Secondary A Aquifer associated with the Wolston Sand & Gravel Member, Secondary Undifferentiated Aquifer associated with the Oadby Till Member and Thrussington Till, and the Secondary B Aquifer associated with Mercia Mudstone Formation)

- Surface water (Sketchley Brook located approximately 700 m south of site and Battling Brook approximately 100 m north, but flowing in a southerly direction)
- Groundwater abstraction (located approximately 860 m south for general farming and domestic use). Celtic (2003) suggest this abstraction is 15 m bgl situated within the Wolston Sand and Gravels, abstracting 900 $m^3$pa

The following receptors have been discounted:

- Construction workers (future consideration) - on the basis that all operatives will be informed of the sites former use and associated risks and will undertake works in accordance with safe working practices, including the use of appropriate PPE.
- Ecologically sensitive sites - on the basis that the site is not located within or near any nature reserves, Ramsar sites, Sites of Special Scientific Interest or Special Protection Areas (Magic, 2024).

The risks to services and buildings (including chemical attack) have not been assessed within this report.

## 3.4 Potential Pathways

Potential pathways considered in the initial CSM are detailed below:

- Human health:
  - Direct Contact (human): Ingestion of soil, water, dust, home grown vegetables and soil attached to vegetables / dermal contact with dust and soil / inhalation of windblown dusts
  - Vapour and gas migration and inhalation
  - Migration through water pipes and ingestion
- Controlled waters:
  - Migration in groundwater
  - Leaching / dissolution
  - Migration via service routes (site drainage/sewers)

It should be noted that information provided within Celtic (2005) and AMEC (2018) suggest that a disused mainline sewer (constructed in 1968) which transects Area A trending south through Area B may be acting as a pathway for contamination at the site. The Environment Agency completed a CCTV survey of the sewer in 1997 located along the western boundary which was observed to be in poor condition.

## 3.5 Plausible Linkages

Each plausible contaminant linkage has been attributed a risk rating based on the guidance presented in CIRIA C552 (CIRIA, 2001). The initial CSM detailing plausible contaminant linkages is presented within the Worley Consulting Desk Study Report (2024). The risk

assessment considers the site's proposed future use as 'Residential with plant uptake and areas of public open space'. As such, current on-site workers are not considered as part of this assessment.

## 3.6 Initial Conceptual Site Model

A summary of the identified risks are provided below:

Human health

- The overall risk level to future residential and public open space human health from site was considered to be **high** based on there being limited ground investigation and ground gas/vapour monitoring within former structures, and the presence of free-phase hydrocarbons within soil and groundwater. Viable pathways include direct contact through ingestion, dermal contact and inhalation within private garden areas, diffusion through drinking water pipes, alongside vapour/ground gas ingress within houses.
- The overall risk level to off-site residential and commercial properties was considered to be **high**, primarily due to the potential of ground gas arising from uninvestigated infilled structures.
- The overall risk level to off-site public open space (park) users was considered to be **moderate/low** from windblown dust and vapour/ground gas migration due to limited ground investigation at the site, noting the open-air environment and infrequent use.

Controlled waters

- The overall risk level to groundwater was considered to be **high** based on there being previously identified NAPL and contaminants within soil and groundwater, in combination with the potential risks associated with uninvestigated former structures.
- The overall risk level to surface water was considered to be **moderate** based on there being previously identified NAPL and contaminants within soil and groundwater, in combination with the potential risks associated with uninvestigated former structures; noting the distance to nearby surface waters and hydrological regime at the site (including risk from migration via service routes).
- The overall risk level to groundwater abstraction was considered to be **moderate/low** based on there being previously identified NAPL and contaminants within soil and groundwater, in combination with the potential risks associated with uninvestigated former structures; noting the distance to the nearest groundwater abstraction point (approximately 860 m south).

# 4. Human Health Generic Quantitative Risk Assessment (Soil)

## 4.1 Introduction

The primary requirement of the GQRA is to assess whether the identified contaminant linkages are considered plausible and could result in the site being considered 'Contaminated Land' as defined by the Statutory Guidance for Part 2A of the Environmental Protection Act 1990 (DEFRA, 2012), and as such further work may be required.

## 4.2 Summary of visual / olfactory contamination

A summary of former structures / below ground features, alongside visual observations and olfactory evidence of possible land contamination noted during the ground investigation, is presented within the Worley Consulting Factual Report. Visual and olfactory contamination ranged from minor odours to visible product; a summary of locations exhibiting strong hydrocarbon odours with significant staining and rainbow sheens is presented within .

*Table 2: locations where strong hydrocarbon odours/staining/sheens were observed*

| Former feature | Location | Strata | Contamination notes | Total TPH concentrations |
|---|---|---|---|---|
| Gasholder 1 - infilled below ground tank | MW25-13A | Made Ground | Black staining, moderate to strong odours and sheens within soils at 2.5 to 2.7 and 3.9 to 4.2 m bgl.<br>Moderate to strong hydrocarbon odour and rainbow sheen observed during groundwater well development/monitoring. | Soil: Total TPH up to 404 $mg.kg^{-1}$<br>Water: Total TPH up to 1.5 $mg.L^{-1}$ |
| | MW25-33 | Made Ground | Strong hydrocarbon & tar odours and rainbow sheens between 3 and >6 m bgl.<br>Rainbow sheen, globules and moderate to strong hydrocarbon odour observed during groundwater well development/monitoring. | Soil: Total TPH up to 8400 $mg.kg^{-1}$<br>Water: Total TPH up to 13.7 $mg.L^{-1}$ |
| | TP25-05 | Made Ground | Moderate hydrocarbon odour and silvery sheen from 2.3 m bgl. | Soil: Total TPH up to 1070 $mg.kg^{-1}$ |
| Gasholder 2 - infilled below ground tank | MW25-10 | Made Ground | Black staining. Moderate to strong hydrocarbon odour & sheens between 2.7 and 6.3 m bgl.<br>Moderate hydrocarbon odour & sheen noted during monitoring. | Soil: Total TPH up to 640 $mg.kg^{-1}$<br>Water: Total TPH up to 11.4 $mg.L^{-1}$ |
| | MW25-30B | Made Ground | Moderate to strong hydrocarbon odour from 2 m bgl and sheens on core exterior from 2.1 m bgl. Black staining from 2.7 m bgl.<br>Mild to moderate hydrocabon odour during monitoring and sheen noted. | Soil: Total TPH up to 610 $mg.kg^{-1}$<br>Water: Total TPH up to 9.83 $mg.L^{-1}$ |

| Former feature | Location | Strata | Contamination notes | Total TPH concentrations |
|---|---|---|---|---|
| Gasholder A - infilled below ground tank | MW25-23B | Made Ground | Black staining, sheen and strong fuel odour from 4.4 m bgl. Visual pockets of black / brown NAPL from 7 to 7.9 m bgl. | Soil sample too heavily contaminated to analyse |
| | | Wolston Sand and Gravel - silt | Black staining and rainbow sheen within underlying silt. NAPL observed through sandy layers. No visual product from 9.2 m bgl and no sheen (mild odour) from 9.7 m bgl.<br>DNAPL present at the base of the well during well development/monitoring (refer to Section 7.3). Strong hydrocarbon odours, globules and rainbow sheens. | Water: Total TPH up to 135 $mg.L^{-1}$ |
| Gasholder B - infilled below ground tank | MW25-25 | Wolston Clay & Sand and Gravel – clay and sand | Pockets of dark brown / black tar below Made Ground to 6 m bgl. Strong tar odour and silvery sheen.<br>No odour, NAPL or sheens noted during well development/monitoring. Mild to moderate hydrocarbon odours noted during monitoring. | Water: Total TPH up to 15.1 $mg.L^{-1}$ |
| Purifier catch boxes | MW25-14 | Base of structure - concrete | Tarry sludge (no visual product) with a strong tarry odour between 1.9 and 2 m bgl. | Soil: Total TPH up to 2430 $mg.kg^{-1}$<br>Water: Total TPH up to 8.78 $mg.L^{-1}$ |
| | TP25-20 | Base of structure - concrete | Black material with a strong sulphuric and sweet odour. | Soil: Total TPH up to 3400 $mg.kg^{-1}$ |
| Scrubbers | MW25-16A | Made Ground – base | Strong hydrocarbon odour with silvery sheen from 1.4 m bgl. Pockets of tar and strong tar odour from 1.75 to 1.85 m bgl.<br>Moderate to strong hydrocarbon/almond odour with brown globules noted within monitoring tubing and rainbow sheens. | Soil: Total TPH up to 253 $mg.kg^{-1}$<br>Water: Total TPH up to 54.2 $mg.L^{-1}$ |
| | | Wolston Clay - clay | Residual tar through fissures, silver sheen and strong fuel / tar odour between 1.85 and 2.25 m bgl. Period of no/mild contamination between 2.25 and 3.4 m bgl. Then moderate tar odour at 3.4 to 3.7 m bgl and brownish black product within sandy layers at 3.7 – 4 m bgl. Strong tar odour and sheen.<br>Occasional rainbow sheens and moderate hydrocarbon/almond odour noted during well development/monitoring. No NAPL. | Soil: Total TPH up to 4955 $mg.kg^{-1}$<br>Water: Total TPH up to 36.6 $mg.L^{-1}$ |
| Suspected purifiers | MW25-09C | Base of structure - wooden | Strong tar odour, black staining with a silvery sheen and brown NAPL globules within base | Soil: Total TPH up to 530 $mg.kg^{-1}$ |

| Former feature | Location | Strata | Contamination notes | Total TPH concentrations |
|---|---|---|---|---|
| | | | of structure (wooden base) small speckles of brown product.<br>No NAPL or sheen noted during well development/monitoring. Moderate to strong hydrocarbon odour observed. | Water: Total TPH up to 2.86 $mg.L^{-1}$ |
| Chimney/ CWG plant | TP25-18 | Made Ground | Pulverised fuel ash between 1.2 and 1.4 m bgl. Mild to moderate hydrocarbon odour and slight sheen between 2.6 and 4 m bgl. | Soil: Total TPH up to 2200 $mg.kg^{-1}$ |
| CWG Plant | MW25-20 | Wolston Sand and Gravel - Sand | Strong fuel odour, silvery sheen through sand and black staining between 3.3 and 7.65 m bgl.<br>No NAPL or sheen noted during well development/monitoring. Moderate to strong hydrocarbon odour observed. | Soil: Total TPH up to 4300 $mg.kg^{-1}$<br>Water: Total TPH up to 32.6 $mg.L^{-1}$ |
| Former diesel tank (southeast) | MW25-34 | Wolston Sand and Gravel - Sand | Yellow staining. Strong hydrocarbon odours. Rainbow sheens from 6.3 m bgl and black staining from 8 to 8.2 m bgl.<br>No odours, NAPL or sheen noted during well development/monitoring. | Soil: Total TPH up to 220 $mg.kg^{-1}$<br>Water: Total TPH up to 2.05 $mg.L^{-1}$ |
| Retort house | MW25-27 | Wolston Clay & Sand and Gravel – Sand and clay | Yellowish staining, very strong odour and rainbow sheen below Made Ground to 6.9 m bgl. Almond odour.<br>No NAPL or sheen noted during well development/monitoring. Moderate to strong tar/creosote odour. | Soil: Total TPH up to 400 $mg.kg^{-1}$<br>Water: Total TPH up to 203 $mg.L^{-1}$ |

It should be noted that no staining or odours were noted within VW25-18, located nearby the former benzol washer, however a total TPH concentration of 3500 $mg.kg^{-1}$ was recorded within the Made Ground at 1 m bgl.

Additionally, 1150 $mg.kg^{-1}$ total TPH was encountered within the Made Ground of MW25-35 at 1 m bgl where coke, clinker and ash were noted within the logs.

## 4.3 Methodology

As part of the GQRA, analytical soil results have been screened against suitable Generic Assessment Criteria for Human Health ($GSAC_{HH}$). The selected assessment criteria are applied to assess the risk posed by identified contaminant linkages under generic circumstances and assumptions.

A residential land use with plant uptake scenario has been considered for future human health receptors. It should be noted that the proposed development plans have not yet been finalised, and therefore proposed areas of soft standing / buildings / hardcover are subject to change. As proposed levels are unknown, current site levels have been used within the GQRA.

The $GSAC_{HH}$ utilised within this assessment comprise Category 4 Screening Levels (C4SL) produced by Contaminated Land: Applications in Real Environments (CL:AIRE) as part of the DEFRA research Project SP1010 which represent a negligible to low risk level. Where necessary, GQRA (C4SL) values have been derived by Worley Consulting using Contaminated Land Exposure Assessment (CLEA) software v1.071. Where C4SL values are not available, Suitable for Use Levels (S4UL) produced by the Land Quality Management (LQM) and the Chartered Institute of Environmental Health (CIEH) in 2015 have been adopted. Finally, in the absence of C4SL and S4UL values, Generic Assessment Criteria (GAC) produced by The Environmental Industries Commission (EIC), Association of Geotechnical & Environmental Specialists (AGS) and CL:AIRE (2010) have been adopted. For complex cyanide, extrapolation from the value for free cyanide has been used using the RIVM approach (2001), whilst the R&D Publication TOX 5 (DEFRA and Environment Agency 2002) has been used for easily liberatable cyanide.

The $GSAC_{HH}$ represent a negligible to low risk level. The application of the C4SL based exposure scenario and toxicology represents a reduction in conservatism from the negligible/minimal risk soil guideline values, albeit still strongly precautionary. An exceedance of the $GSAC_{HH}$ or C4SL does not necessarily denote unacceptable risk but may require further assessment to ascertain if unacceptable risks to identified receptors are present. The nominated guideline values do not necessarily represent "clean-up" or action guidelines but are meant as a method of identifying contaminants of concern so that they may be considered further within a risk assessment framework.

In line with the CLEA guidance, site specific SOM values for shallow soils were determined from selected samples collected during the site investigation. SOM varied from 0.1% to 19% with an average of 1.83% and a calculated 'most common' value of approximately 1.4%. On this basis, GSACs with a SOM value of 1% have been used. Guideline values have been selected assuming NAPL is present.

The effects of extreme low or high pH are not considered to have long term chronic effects but is likely to result in acute effects associated with corrosion of materials and irritation. In the absence of a generic assessment criteria for pH acute risks will be considered for pH values ≤2.0 and ≥12.

The form of mercury is not specified but assumed to be methyl mercury, as this can be readily formed from inorganic mercury by the action of soil microbes. This is considered to be a health protective assumption for identified receptors at the site.

Soil samples have been analysed for elemental sulphur, sulphate, chloride, and ammonia and ammonium. These contaminants are not considered to be sufficiently toxic to human health based on concentrations likely to be found in the environment. They may be of use for further site assessments but are not going to be considered within the human health risk assessment.

Concentrations of TPH fractions from soil samples across the site will initially be screened against corresponding criteria, to appraise the potential for unacceptable risk from each fraction. However, the additive toxicological effects of all TPH fractions need to be appraised in addition to the individual fractions. The additive effect is considered to exceed the assessment criteria when the hazard index of all individual fractions is greater than 1.

The $GSAC_{HH}$ for aliphatics C10 to C44 are dependant on the presence of free product (NAPL). Where NAPL is present, the solubility limit has been adopted. As no significant NAPL was identified within samples <0.8 m bgl, the S4UL values have been adopted. It should be noted that aliphatics C10 to C44 are not considered to be significantly volatile.

A hazard quotient (HQ) in the context of this assessment is the ratio of the measured concentration of a contaminant and the assessment criteria at which exposure results in a minimal/negligible risk level. If the hazard quotient is greater than 1, then exposure to that concentration is above the minimal/negligible risk level.

Adopted assessment criteria are presented within Appendix D.

## 4.4 Comparison of Site Data to Derived $GSAC_{HH}$ (Soil)

To assess the likelihood of unacceptable risk to future and off-site residents from direct contact, ingestion and dust inhalation pathways, soils from 0.0 – 0.8 m bgl have been screened against the 'residential (with vegetation uptake)' $GSAC_{HH}$.

Below 0.8 m bgl contaminants are not considered likely to represent a risk to human health through direct contact pathways. Only volatile contaminants below 0.8 m are screened against the selected assessment criteria to appraise risk to human health, as detailed in Section 4.4.2 below.

The assessment of unacceptable risk to human health from inhalation of asbestos fibres is provided in Section 4.6.

### 4.4.1 Samples 0 – 0.8 m bgl

Of the 240 samples collected; 89 were taken from depths <0.8 m bgl (11 from Area A, 68 from Area B, and 10 from Area C).

Concentrations of contaminants measured in excess of the selected assessment criteria within Areas A and C are presented within Table 3, and within Area B are presented in Table 4. Screened analytical soil data for samples collected from 0.0-0.8 m bgl is presented in Appended Table A. Exceedances are illustrated on Figures 5A and 5B.

*Table 3: Exceedances of the residential (with plant uptake) $GSAC_{HH}$ for soil samples in Area A and C*

| Contaminant | Site data ($mg.kg^{-1}$) | | Residential ($mg.kg^{-1}$) | | | |
|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{HH}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl) |
| ***Area A: <0.8 m bgl*** | | | | | | |
| Arsenic | 47 | 14.8 | 37 | 2 | 1.3 | VW25-02 at 0.2 & 0.6 (coke tip) |
| Lead | 210 | 48.2 | 200.89 | 3 | 1.3 | MW25-03 at 0.3<br>TP25-02 at 1.0 |

| Contaminant | Site data (mg.kg$^{-1}$) | | Residential (mg.kg$^{-1}$) | | | |
|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{HH}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl) |
| | | | | | | VW25-04 at 0.3 (coke tip) |
| ***Area C: <0.8 m bgl*** | | | | | | |
| Lead | 2100 | 356 | 200.89 | 3 | 10.5 | MW25-28A at 0.6<br>TP25-14 at 0.6<br>VW25-06 at 0.6<br>(MGR hotspot) |

*HQ = Hazard Quotient of maximum concentration*

*Table 4: Exceedances of the Residential (with plant update) $GSAC_{HH}$ for soil samples <0.8 m bgl in Area B*

| Contaminant | Site data (mg.kg$^{-1}$) | | Residential (mg.kg$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{HH}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl)* | Former feature (no. of samples) |
| **Easily liberatable cyanide** | 8.2 | <1.2 | 1.44 | 5 | 5.7 | VW25-01 at 0.8<br>MW25-12 at 0.3<br>MW25-34 at 0.4<br>VW25-09 at 0.7<br>MW25-08 at 0.5 | Primary purifiers<br>Oxide shed<br>Former tank<br>General MGR<br>General MGR |
| **Naphthalene** | 37 | <2.8 | 15 | 5 | 2.5 | MW25-04A at 07<br>MW25-22 at 0.5<br>TP25-13 at 0.5<br>MW25-34 at 0.4<br>MW25-15C at 0.7 | Refuse tip<br>Gasholder 3<br>Gasholder 3<br>Former tank<br>Unknown feature |
| Chrysene | 42 | <2.86 | 15 | 1 | 2.8 | VW25-15 at 0.75 | General MGR |
| Benzo[b]fluoranthene | 62 | <3.87 | 2.6 | 24 | 23.8 | Highest within VW25-15 at 0.75 | Spread across most former features / general MGR |
| Benzo[a]pyrene | 62 | <3.45 | 4.96 | 11 | 12.5 | Highest within VW25-15 at 0.75 | Spread across some former features / general MGR |
| Indeno[1,2,3-cd]pyrene | 33 | <1.93 | 27 | 1 | 1.2 | VW25-15 at 0.75 | General MGR |
| Dibenz(a,h)anthracene | 6 | <0.37 | 0.24 | 25 | 25.4 | Highest within VW25-15 at 0.75 | Spread across most former features / general MGR |
| Arsenic | 68 | 18.3 | 37 | 7 | 1.8 | VW25-20A at 0.75 & VW25-21 at 0.75<br>VW25-01 at 0.8<br>MW25-14 at 0.6<br>MW25-27 at 0.5<br>MW25-09 at 0.3 | Refuse tip<br>Primary purifiers<br>Purifier catch boxes<br>Retort house<br>Exhauster |

| Contaminant | Site data (mg.kg$^{-1}$) | | Residential (mg.kg$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{HH}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl)* | Former feature (no. of samples) |
| | | | | | | VW25-08 at 0.3 | General MGR |
| Lead | 410 | 69.3 | 200.89 | 5 | 2.0 | VW25-20A at 0.75<br>VW25-01 at 0.8<br>MW25-09C at 0.1 & MW25-15C at 0.7<br>VW25-08 at 0.3 | Refuse tip<br>Primary purifiers<br>Possible purifiers<br>General MGR |

*HQ = Hazard Quotient of maximum concentration*

** locations listed when <10 exceedances identified.*

*Contaminants highlighted in **bold** are considered to be volatile*

Additionally, the following VOCs have been encountered above detection limits (DL) within Area B, however no human health criteria exist for these contaminants.

*Table 5: VOCs above detection limit (where no GSACHH exist) for soil samples <0.8 m bgl in Area B*

| Contaminant | Max. concentration ($mg.kg^{-1}$) | No. of samples > DL | Location |
|---|---|---|---|
| n-Propylbenzene | 0.0096 | 1 of 7 | MW25-22 at 0.5 (Gasholder 3) |
| 1,3,5-Trimethylbenzene | 0.087 | 1 of 7 | MW25-22 at 0.5 (Gasholder 3) |
| 2-Methylnaphthalene | 16 | 2 of 3 | MW25-22 at 0.5 (Gasholder 3)<br>VW25-01 at 0.8 (primary purifiers) |
| Dibenzofuran | 1.3 | 2 of 3 | MW25-22 at 0.5 (Gasholder 3)<br>VW25-01 at 0.8 (primary purifiers) |
| Carbazole | 0.4 | 1 of 3 | VW25-01 at 0.8 (primary purifiers) |
| Anthraquinone | 2.3 | 2 of 3 | MW25-22 at 0.5 (Gasholder 3)<br>VW25-01 at 0.8 (primary purifiers) |

### 4.4.2 Samples >0.8 m bgl

The assessment of human health risk from soils below 0.8 m depth considers vapour risk from volatile contaminants only. The following volatile contaminants have been screened.

- Naphthalene;
- Free cyanide;
- Benzene;
- Toluene;
- Ethylbenzene;
- m & p xylene;
- o xylene;
- VOCs.

Out of the 240 samples taken, 11 were taken >0.8 m bgl from Area A, 123 were taken >0.8 m bgl from Area B, and 9 were taken >0.8 m bgl from area C. The samples were screened against the corresponding derived residential (with plant uptake) $GSAC_{HH}$ for the contaminants as detailed above.

No exceedances of the residential (with plant uptake) $GSAC_{HH}$ for volatile contaminants within samples >0.8 m bgl were observed within Areas A or C.

Concentrations of contaminants measured in excess of the selected assessment criteria within Area B are presented in Table 6. Screened analytical soil data for samples collected from depths greater than 0.8 m bgl is presented in Appended Table B. Exceedances are illustrated on Figure 6.

*Table 6: Exceedances of the Residential (with plant update) $GSAC_{HH}$ for selected soil samples >0.8 m bgl in Area B*

| Contaminant | Site data (mg.kg$^{-1}$) | | Residential (mg.kg$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{HH}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl)* | Former feature (no. of samples) |
| Easily liberatable cyanide | 12 | <1.3 | 1.44 | 8 of 122 | 8.3 | MW25-36 at 2.9<br>MW25-13A at 27 & MW25-33 at 6.0<br>TP25-21 at 1.65<br>MW25-14 at 1.95 & TP25-20 at 1.0 and 1.8 | Reservoir<br>Gasholder 1<br>Primary purifiers<br>Purifier catch boxes |
| Naphthalene | 2400 | <49 | 15 | 22 of 122 | 160 | Highest within MW25-25 at 5.8 | Spread across former features / general MGR |
| Benzene | 46 | <1.6 | 0.02 | 25 of 107 | 2300 | Highest within MW25-25 at 5.8 | Spread across former features / general MGR |
| Xylene (o-Xylene) | 67 | <2.4 | 60 | 1 of 107 | 1.1 | MW25-02 at 5.4 | CWG plant |
| Styrene | 29 | <1.9 | 19.45 | 1 of 16 | 1.5 | MW25-25 at 5.8 | Gasholder B |
| 1,2,4-Trimethylbenzene | 27 | <7.7 | 0.52 | 12 of 16 | 51.9 | Highest within MW25-14 at 1.95 | Spread across former features |
| 2,4-Dimethylphenol | 220 | <31.7 | 34.12 | 1 of 7 | 6.4 | MW25-25 at 5.8 | Gasholder B |

*HQ = Hazard Quotient of maximum concentration*

** locations listed when <10 exceedances identified.*

Additionally, the following VOCs have been encountered above detection limit within Area B only, however no human health criteria exist for the contaminants.

*Table 7: VOCs above detection limit (where no GSACHH exist) for soil samples >0.8 m bgl in Area B*

| Contaminant | Max. concentration ($mg.kg^{-1}$) | No. of samples > DL | Location |
|---|---|---|---|
| p-Isopropyltoluene | 1.3 | 8 of 16 | MW25-13A at 2.7 & MW25-33 at 4.0 (Gasholder 1)<br>MW25-10 at 2.5 & MW25-30B at 2.2 (Gasholder 2)<br>MW25-14 at 1.95 & TP25-20 at 1.8 (Purifier catch boxes)<br>MW25-16A at 2.0 (scrubbers)<br>MW25-27 at 3.3 (retort house) |
| 1,3,5-Trimethylbenzene | 7.6 | 10 of 16 | As above plus MW25-25 a 5.8 (Gasholder B) and MW25-16A at 3.8 (scrubbers) |
| n-Propylbenzene | 2.4 | 11 of 16 | As above plus VW25-18 at 1.0 (benzol washer) |
| Butylbenzene | 0.79 | 2 of 16 | MW25-27 at 3.3 (retort house)<br>VW25-18 at 1.0 (benzol washer) |
| Aniline | 0.4 | 2 of 7 | MW25-23B a 4.7 (Gasholder A)<br>VW25-18 at 1.0 (benzol washer) |
| 2-Methylphenol | 55 | 1 of 7 | MW25-25 a 5.8 (Gasholder B) |
| 4-Methylphenol | 91 | 1 of 7 | MW25-25 a 5.8 (Gasholder B) |
| Carbazole | 320 | 5 of 7 | MW25-25 a 5.8 (Gasholder B)<br>MW25-14 at 1.95 & TP25-20 at 1.8 (Purifier catch boxes)<br>MW25-16A at 2.0 (scrubbers)<br>VW25-18 at 1.0 (benzol washer) |
| 2-Methylnaphthalene | 620 | 7 of 7 | As above plus MW25-33 at 4.0 (Gasholder 1) & MW25-23B a 4.7 (Gasholder A) |
| Dibenzofuran | 550 | 7 of 7 | As above |
| Anthraquinone | 14 | 4 of 7 | MW25-33 at 4.0 (Gasholder 1)<br>MW25-25 a 5.8 (Gasholder B)<br>MW25-14 at 1.95 & TP25-20 at 1.8 (Purifier catch boxes) |

** locations listed when <10 samples above detection limit (DL)*

## 4.5 Soil Risk Evaluation

### 4.5.1 Area A

Within Area A, exceedances of the residential (with plant uptake) $GSAC_{HH}$ for arsenic and lead were noted within the Made Ground, with HQ of 1.05 and 1.3. Made Ground within Area A is generally between 0.5 and 1.0 m in thickness. Whilst instances of coal and clinker were noted within field logs, there is little evidence that significant contamination has arisen from the potential former use as a coke tip.

The risk from volatile contaminants is discussed within Section 5, however no exceedances of the residential (with plant uptake) $GSAC_{HH}$ for volatile contaminants were recorded within samples from Area A.

### 4.5.2 Area B

Within Area B, various contaminants were encountered exceeding the residential (with plant uptake) $GSAC_{HH}$. These include free cyanide, PAHs, arsenic and lead. PAHs were noted to be highest within Made Ground at VW25-15, situated within the southeast of the site, however they were encountered spread across most former features / general Made Ground. Concentrations of arsenic and lead were encountered across the area (maximum HQ of 1.8 and 2.0, respectively). Easily liberatable cyanide was encountered within five locations across the site with a HQ of up to 5.7. It should be noted that average concentrations across the site are well below adopted criteria values.

Based on the evidence collected above, there is considered to be a potentially unacceptable risk to proposed residential end users from non-volatile contaminants within soils in Area B.

Volatile contaminants were recorded above residential (with plant uptake) $GSAC_{HH}$ within soil samples taken both above (naphthalene and free cyanide) and below (naphthalene, benzene, free cyanide, xylene, styrene, 1,2,4-trimethylbenzene and 2,4-dimethylphenol) 0.8 m bgl within Area B. Additionally, various VOCs were encountered above detection limit, both above and below 0.8 m bgl, however no human health criteria exist for the contaminants. The presence of volatile contaminants is discussed within Section 5.

### 4.5.3 Area C

Elevated lead was encountered within the Made Ground at three locations situated nearby the former Gasholder 4, suggesting a possible source as lead paint arising from the former above ground gasholder structure. Although a maximum concentration of 2100 $mg.kg^{-1}$ has been recorded (HQ of 10.5), it should be noted that lead is not fully bioavailable. For example, the U.S. EPA indicate that the relative bioavailability (RBA) of lead in soil is 60%, indicating what whilst high levels may be encountered, they will not all be absorbed by the body. Made Ground within Area C area generally ranged between 0.4 and 1.4 m in thickness.

Based on the current evidence collected above, there is considered to be a potentially unacceptable risk to proposed residential end users from non-volatile contaminants within soils in Area C. The risk may be reduced with strategic shallow sampling of Made Ground across the area and subsequent statistical analysis and risk assessment.

The risk from volatile contaminants is discussed within Section 5, however no exceedances of the residential (with plant uptake) $GSAC_{HH}$ for volatile contaminants were recorded within samples from Area C.

## 4.6 Asbestos within Soils

A total of 75 samples were screened for asbestos identification (presence/absence); 10 samples from Area A, 59 from Area B and six from Area C. Asbestos was not detected in samples from Areas A or C. Asbestos was detected in 17 of the samples taken from Area B. Chrysotile was detected within 14 samples, amosite in eight samples and crocidolite in three samples. All positively identified asbestos was in samples from the Made Ground. All asbestos containing material types detected (ACM) were loose fibres or loose fibrous debris. Actinolite, anthophyllite and tremolite were not detected within any samples analysed. Details are provided in Table 8 and illustrated on Figure 7.

*Table 8: Asbestos within soil samples*

| Sample location | Depth (m bgl) | Asbestos type | Quantity (% mass) | Former structure | Made Ground matrix |
|---|---|---|---|---|---|
| MW25-08 | 0.50 | Chrysotile | < 0.001 | Made Ground (Area B) | Clay |
| MW25-24 | 0.40 | Chrysotile | 0.001 | | Silt |
| VW25-08 | 0.30 | Amosite, Chrysotile, Crocidolite | 0.007 | | Gravel |
| VW25-09 | 0.30 | Chrysotile | < 0.001 | | |
| MW25-09C | 0.10 | Chrysotile | < 0.001 | Possible purifers | Gravel |
| MW25-11 | 0.20 | Amosite | < 0.001 | Primary Purifiers | |
| MW25-12 | 0.30 | Chrysotile | < 0.001 | Oxide Shed | |
| MW25-13A | 0.80 | Amosite, Chrysotile | 0.001 | Gasholder 1 | Clayey gravel |
| MW25-33 | 1.10 | Chrysotile, Crocidolite | 0.003 | | Clay |
| TP25-06 | 0.40 | Chrysotile | < 0.001 | | |
| MW25-22 | 0.50 | Amosite, Chrysotile | 0.001 | Gasholder 3 | Clay |
| MW25-27 | 0.50 | Amosite, Chrysotile | 0.018 | Retort House | Gravel |
| MW25-29 | 0.30 | Amosite | < 0.001 | Exhauster /pump house | |
| TP25-20 | 1.00 | Amosite, Chrysotile, Crocidolite | 0.012 | Purifier Catch Box | |
| VW25-19A | 0.20 | Chrysotile | < 0.001 | Unknown | Gravel |
| VW25-20A | 0.20 | Amosite | 0.009 | Refuse Tip | |
| VW25-25 | 0.20 | Chrysotile | < 0.001 | Unknown | |

### 4.6.1 Soils Risk Evaluation – Asbestos

Asbestos in the form of amosite, chrysotile and crocidolite free fibres up to 0.018 % was encountered within Area B. No asbestos was detected within Areas A and C during the 2025 investigation. However, Wood (2002) identified chrysotile asbestos within WS07 (0.5-0.5 m bgl: 0.0046%) and WS08 (0.1-0.2 m bgl: 0.0284%) within Area A. Dustiness testing was undertaken on both samples and it was concluded that there was limited potential for fibres to be released from the soils.

Based on the evidence collected above, there is considered to be a potentially unacceptable risk to proposed residential end users from asbestos within soils in Area A and Area B. There remains the possibility that asbestos could be encountered in Area C.

# 5. Human Health Generic Quantitative Risk Assessment (Vapour)

## 5.1 Introduction

The vapour GQRA interrogates the potentially unacceptable contaminant linkages outlined in the conceptual model. The primary requirement of the vapour GQRA is to assess whether the identified linkages are considered plausible and could result in the site being considered 'Contaminated Land' as defined by the Statutory Guidance for Part 2A of the Environmental Protection Act 1990 (DEFRA, 2012), and whether further work may be required.

## 5.2 Soil Vapour GQRA

The following section presents the findings of the vapour risk assessment which was undertaken using vapour samples collected from the dedicated vapour monitoring wells. In addition to this, soils samples were screened for volatile soil contaminants as discussed within Section 4 above.

### 5.2.1 Monitoring Well Installation Summary

Twenty dedicated vapour/ground gas well monitoring points were installed as part of the investigation to assess migration of vapour contaminants from on-site sources to human health receptors. A summary of the vapour/ground gas monitoring well installations are provided in Table 9.

*Table 9: Summary of Vapour Monitoring Well Installation*

| Well ID | Screened depth (m AOD) | Former Feature | Sensitive Receptors |
|---|---|---|---|
| **Area A** | | | |
| VW25-02 | 0.45-1.45 | Coke Tip | Future residential receptors and residential properties to the north |
| VW25-04 | 0.35-0.35 | Coke Tip | Future residential receptors |
| VW25-23 | 0.5-1.5 | - | Future residential and residential properties to the east |
| VW25-24 | 0.5-1.3 | - | Future residential and residential properties to the west |
| **Area B** | | | |
| VW25-01 | 0.3-0.8 | Primary Purifiers | Future residential receptors |
| VW25-08 | 0.5-1 | - | Future residential receptors and residential properties to the north |
| VW25-09 | 0.5-1 | - | Future residential receptors and residential properties to the east |
| VW25-11A | 0.5-1 | Gasholder 3 | Future residential receptors and residential properties to the north |

| Well ID | Screened depth (m AOD) | Former Feature | Sensitive Receptors |
|---|---|---|---|
| VW25-12 | 0.5-1.2 | Exhauster / Pump House | Future residential receptors and residential properties to the west |
| VW25-13 | 1-1.5 | - | Future residential receptors and residential properties to the west |
| VW25-14 | 0.5-1.1 | Gasholder 2 | Future residential receptors and commercial development (Lidl) to the east |
| VW25-15 | 0.5-1.2 | - | Future residential receptors and residential properties to the south |
| VW25-16A | 0.5-1.2 | Unknown | Future residential receptors and residential properties to the south |
| VW25-17 | 0.5-1 | Unknown | Future residential receptors and commercial development (Lidl) to the east |
| VW25-18 | 0.5-1.2 | Benzol Washer | Future residential receptors |
| VW25-19A | 0.5-1.5 | Unknown | Future residential receptors and residential properties to the west |
| VW25-20A | 0.5-1.3 | Refuse Tip | Future residential receptors and residential properties to the west |
| VW25-21 | 0.5-1.05 | Refuse Tip | Future residential receptors |
| VW25-22 | 0.5-0.85 | Settling Tanks | Future residential receptors and residential properties to the east |
| VW25-25 | 0.5-1.5 | Unknown | Future residential receptors and commercial development (Lidl) to the east |
| **Area C** | | | |
| VW25-07 | 0.4-1.1 | Gasholder 4 | Future residential receptors and residential properties to the north |

### 5.2.2 Methodology

Analytical vapour results collected from the installed vapour wells were compared against suitable air quality assessment criteria (AQAC).

AQAC are used to screen the vapour results and identify the level at which measured contaminant concentrations potentially present a risk of harm (above minimal risk) to the receptor under generic circumstances. In the event that they are exceeded, additional assessment may be required to further appraise potentially unacceptable risks arising from the generation and migration of vapours.

AQAC protective of a commercial land use is considered most appropriate for the neighbouring commercial properties, with AQAC protective of residential land use have been applied to all samples for future end users and nearby residential properties.

Where significant water was encountered within a vapour well, a sample was not collected.

Adopted assessment criteria are presented within Appendix D.

### 5.2.3 Exceedances of AQAC – Soil Vapour

Of the 58 vapour locations analysed (including three duplicates), 11 were taken from three vapour wells within Area A (including two duplicates), 44 were taken from 15 vapour wells within Area B (including one duplicate), and three were taken from one vapour well within Area C. No exceedances of the residential AQAC were observed within Area C. No exceedances of the commercial AQAC were observed within Areas A or C.

It should be noted that the laboratory detection limit for vinyl chloride (1.3 ug.m$^{-3}$) is greater than the AQAC (1 ug.m$^{-3}$). In addition, the detection limits used for the second sample taken from VW25-18 in Area B were higher due to dilution being required. This means that the detection limit for chloromethane, trichloroethene and naphthalene are all above respective criteria value (residential and/or commercial).

Concentrations of contaminants measured in excess of the selected assessment criteria within Area A and B are presented in Table 10 and illustrated on Figures 8A and 8B. Screened analytical vapour data for samples is presented in Appended Table C.

*Table 10: Exceedances of the residential and commercial AQAC for vapour samples in Area A and B*

| Contaminant | Max. conc. (ug.m$^{-3}$) | Residential AQAC (ug.m$^{-3}$) | Commercial AQAC (ug.m$^{-3}$) | No. of exceedance locations | Exceedance locations & monitoring rounds |
|---|---|---|---|---|---|
| **Area A** | | | | | |
| 1,2,4-Trimethylbenzene | 18 | 7 | 21.7 | 1 of 3 | Exceedance of residential AQAC within 1 of 3 (2$^{nd}$) monitoring rounds in VW25-04 only. |
| Benzene | 17 | 5.0 | 30.3 | 1 of 3 | Exceedance of residential AQAC within all three monitoring rounds in VW25-04 only. |
| TPH Aliphatic C8-C10 | 1100 | 1000 | 3150 | 1 of 3 | Exceedance of residential AQAC within 1 of 3 (2$^{nd}$) monitoring rounds in VW25-04 only. |
| **Area B** | | | | | |
| 1,2,4-Trimethylbenzene | 44 | 7 | 21.7 | 1 of 15 | Exceedance of residential AQAC within all three monitoring rounds and exceedance of commercial AQAC within 2 of 3 (2$^{nd}$ & 3$^{rd}$) monitoring rounds in VW25-18 only. |
| Benzene | 11 | 5.0 | 30.3 | 1 of 3 | Exceedance of residential AQAC within 1 of 3 (2$^{nd}$) monitoring rounds in VW25-18 only. |
| Trichloroethene | 7.3 | 5.6 | 113 | 1 of 3* | Exceedance of residential AQAC within 1 of 3 (3$^{rd}$) monitoring rounds in VW25-15. |

| Contaminant | Max. conc. ($ug.m^{-3}$) | Residential AQAC ($ug.m^{-3}$) | Commercial AQAC ($ug.m^{-3}$) | No. of exceedance locations | Exceedance locations & monitoring rounds |
|---|---|---|---|---|---|
| TPH Aliphatic C8-C10 | 9800 | 1000 | 3150 | 2 of 3 | Exceedance of residential AQAC within 1 of 3 ($2^{nd}$) monitoring rounds in VW25-09 and VW25-18 and exceedance of commercial AQAC within 21 of 3 ($2^{nd}$) monitoring rounds in VW25-18 only. |
| * the detection limit used for VW25-18 (21.6 $ug.m^{-3}$) is also above criteria values | | | | | |

The following VOCs have been encountered above detection limit, however no AQAC exist for the contaminants.

*Table 11: VOCs above detection limit (where no AQAC exist)*

| VOC | Max. concentration ($mg.kg^{-1}$) | No. of samples > DL* | Location |
|---|---|---|---|
| 1,1-Dichloroethane | 7.5 | 5 of 58 | VW25-23 (Area A) only |
| 1,4-Dioxane | 32.0 | 17 of 58 | All areas |
| 4-Ethyltoluene | 23.0 | 7 of 58 | All areas |
| Acetone | 130.0 | 56 of 58 | All areas |
| Acrolein | 67.0 | 35 of 58 | All areas |
| Bromodichloromethane | 15$ | 8 of 58 | VW25-08, VW25-12, VW25-13 and VW25-14 (Area B) |
| Carbon disulphide | 1300 | All | All areas |
| Cyclohexane | 230 | 12 of 58 | VW25-04 and VW25-23 (Area A), VW25-08, VW25-09 and VW25-18 (Area B) |
| Dichlorodifluoromethane | 10$ | 21 of 58 | Area A and Area B |
| Dichlomethane | 54$ | 11 of 58 | All areas |
| Ethyl acetate | 5.8$ | 4 of 58 | VW25-04 (Area A), VW25-09 and VW25-25 (Area B) |
| Ethanol | 13000.0 | 9 of 58 | All areas |
| Isopropyl alcohol | 43.0 | 25 of 58 | All areas |
| 2-Hexanone (MBK) | 32.0 | 13 of 58 | All areas |
| MEK | 320.0 | 56 of 58 | All areas |
| MIBK | 3.6$ | 2 of 58 | VW25-04 (Area A) and VW25-01 (Area B) |
| Propene | 1300 | 41 of 58 | All areas |

| VOC | Max. concentration ($mg.kg^{-1}$) | No. of samples > DL* | Location |
|---|---|---|---|
| Trichlorofluoromethane | 270 | 15 of 58 | VW25-01, VW25-12, VW25-13, VW25-18, VW25-19A, VW25-22 (Area B) |
| THF | 57 | 6 of 58 | VW25-08, VW25-09, VW25-11A, VW25-VW25-13, VW25-20A, VW25-25 (Area B) |
| 1,3,5-Trimethylbenzene | 10* | 1 of 58 | VW25-04 (Area A) |
| TPH Aromatic C7-C8 | 44 | 1 of 56 | VW25-04 (Area A) |
| TPH Aromatic C8-C10 | 250 | 25 of 56 | All areas |
| TPH >C10-C12 | 10000 | 55 of 56 | All areas |
| PRO C5-C12 | 24000 | All | All areas |
| TPH >C5-C6 | 520 | 22 of 56 | All areas |
| TPH >C6-C8 | 2700 | 45 of 56 | All areas |
| TPH >C8-C10 | 10000 | 55 of 56 | All areas |

* *including duplicate sample*

$ *excluding second sample from VW25-18 (higher detection limit)*

Various VOC Tentatively Identified Compounds (TIC) have been identified within vapour samples taken from Area A, Area B and Area C. These are presented within Appended Table C.

## 5.3 Groundwater Vapour GQRA

To assess the risk of the migration of site-derived volatile contaminants to residents via shallow perched water or groundwater flow, groundwater results have been screened against generic assessment criteria. The $GAC_{gwvap}$ have been published by SoBRA (2017) in line with existing UK risk assessment guidance. The $GACg_{wvap}$ are applicable to dissolved phase contaminants present within the groundwater. Where free-phase product exists, further lines of assessment are required in addition to these criteria.

Analytical groundwater results collected from the following data sources were compared with Generic Assessment Criteria (GACgwvap) for vapours arising from groundwater:

- 2025 Worley Consulting groundwater monitoring wells
- Selection of previously installed groundwater monitoring wells along the western and southern boundaries

### 5.3.1 Methodology

Residential and commercial $GAC_{gwvap}$ have been adopted to enable assessment of potential chronic risks to future residential, offsite residential and offsite commercial receptors from the inhalation of vapours arising from groundwater (SoBRA, 2017).

Adopted assessment criteria are presented within Appendix D.

### 5.3.2 Exceedances of $GAC_{gwvap}$ – Groundwater Vapour

A total of three monitoring rounds were conducted with the collection of 140 groundwater samples (including duplicates) and two surface water samples each round. Out of the 140 samples collected, 15 were taken from three wells in Area A (including duplicates), 121 were taken from 26 wells in Area B (including duplicates), and four from one well in Area C (including a duplicate).

Volatile groundwater contaminant concentrations in excess of the $GAC_{gwvap}$ were identified within groundwater samples collected from monitoring wells in Area B. Concentrations of contaminants measured in excess of the selected assessment criteria are summarised in Table 12 and identified on Figure 9. Screened analytical groundwater vapour data for samples is presented in Appended Table D.

No exceedances of the residential or commercial $GAC_{gwvap}$ AQAC were observed within Areas A or C.

*Table 12: Exceedances of the residential and commercial $GAC_{gwvap}$ for groundwater vapour samples in Area B*

| Contaminant | Max. conc. ($mg.L^{-1}$) | Residential $GAC_{gwvap}$ ($mg.L^{-1}$) | Commercial $GAC_{gwvap}$ ($mg.L^{-1}$) | No. of exceedances | Exceedance locations & monitoring rounds | Former feature |
|---|---|---|---|---|---|---|
| Naphthalene | 6.8 | 0.22 | 23 | Residential: 23 of 121 | CBH126 - 1 of 3 (2nd) monitoring rounds | Unknown |
| | | | | | MW25-10 – all rounds | Gasholder 2 |
| | | | | | MW25-30B – all rounds | Gasholder 2 |
| | | | | | MW25-17 - 2 of 3 (2nd & 3rd) monitoring rounds | Gasholder 3 |
| | | | | | MW25-23B – all rounds | Gasholder A |
| | | | | | MW25-25 - 1 of 3 (2nd) monitoring rounds | Gasholder B |
| | | | | | MW25-16A-D – all rounds | Scrubbers |
| | | | | | MW25-16A-S -2 of 3 (1st & 2nd) monitoring rounds | Scrubbers |
| | | | | | MW25-20 – all rounds | CWG plant |
| | | | | | MW25-27 – all rounds | Retort house |
| | | | | | MW25-29 - 1 of 3 (3rd) monitoring rounds | Exhauster |
| Mercury (inorganic) | 0.002 | 0.0011 | 0.095 | Residential: 2 of 121 | MW25-17 - 2 of 3 (2nd & 3rd) monitoring rounds | Gasholder 3 |
| Benzene | 22 | 0.21 | 20 | Residential: 29 of 121<br>Commercial: 1 of 121 | Exceedance of residential $GAC_{gwvap}$ within: | |
| | | | | | CBH126 - all rounds | Unknown |
| | | | | | MW25-10 – all rounds | Gasholder 2 |
| | | | | | MW25-30B – all rounds | Gasholder 2 |
| | | | | | MW25-23B – all rounds | Gasholder A |
| | | | | | MW25-25 - 2 of 3 (2nd & 3rd) monitoring rounds | Gasholder B |
| | | | | | MW25-16A-D – all rounds | Scrubbers |
| | | | | | MW25-16A-S – all rounds | Scrubbers |
| | | | | | MW25-20 – all rounds | CWG plant |
| | | | | | MW25-27 – all rounds | Retort house |
| | | | | | MW25-29 - 1 of 3 (3rd) monitoring rounds | Exhauser |
| | | | | | Exceedance of commercial $GAC_{gwvap}$ within: | |

| Contaminant | Max. conc. ($mg.L^{-1}$) | Residential $GAC_{gwvap}$ ($mg.L^{-1}$) | Commercial $GAC_{gwvap}$ ($mg.L^{-1}$) | No. of exceedances | Exceedance locations & monitoring rounds | Former feature |
|---|---|---|---|---|---|---|
| | | | | | MW25-23B - 1 of 3 (1st) monitoring rounds | Gasholder A |
| Aliphatic C10 – C12 | 3.11 | 0.037 | 3.6 | Residential: 6 of 121 | CBH126 - 1 of 3 (1st) monitoring rounds<br>CBH129 - 1 of 3 (2nd) monitoring rounds<br>MW25-33 – 1 of 3 (2nd) monitoring rounds<br>MW25-23B – 1 of 3 (3rd) monitoring rounds<br>MW25-27 - 2 of 3 (2nd & 3rd) monitoring rounds | Unknown<br>Managers house<br>Gasholder 1<br>Gasholder A<br>retort house |
| Aromatic C8 – C10 | 6.60 | 1.9 | 190 | Residential: 4 of 121 | MW25-23B – all rounds<br>MW25-27 - 2 of 3 (2nd & 3rd) monitoring rounds | Gasholder A<br>retort house |
| Aromatic C10 – C12 | 156 | 6.8 | 660 | Residential: 16 of 121 | CBH126 - 2 of 3 (1st & 2nd) monitoring rounds<br>MW25-23B – all rounds<br>MW25-16A-D – all rounds<br>MW25-16A-S - 2 of 3 (1st & 2nd) monitoring rounds<br>MW25-20 – all rounds<br>MW25-27 – all rounds | Unknown<br>Gasholder A<br>Scrubbers<br>Scrubbers<br>CWG plant<br>Retort house |
| 1,2,4-Trimethylbenzene | 0.369 | 0.024 | 2.2 | Residential: 16 of 21 | CBH126 - all rounds<br>MW25-33 – 2 of 3 (2nd & 3rd) monitoring rounds<br>MW25-10 – 2 of 3 (2nd & 3rd) monitoring rounds<br>MW25-23B – all rounds<br>MW25-16A-S - all rounds<br>MW25-27 – all rounds | Unknown<br>Gasholder 1<br>Gasholder 2<br>Gasholder A<br>Scrubbers<br>Retort house |

## 5.4 Vapour risk evaluation

### 5.4.1 Area A

#### 5.4.1.1 Soil results

No exceedances of the residential (with plant uptake) $GSAC_{HH}$ for volatile contaminants were recorded within soil samples from Area A. No VOCs were encountered above detection limit (where no human health criteria exist) within soil samples within Area A.

#### 5.4.1.2 Groundwater vapour

No exceedances of the residential or commercial GACgwvap AQAC were observed within groundwater samples from Area A.

#### 5.4.1.3 Vapour results

Exceedances of the residential AQAC were observed for 1,2,4-trimethylbenzene, benzene and TPH aliphatic C8-C10 in vapour samples from VW25-04 only. 1,2,4-trimethylbenzene and TPH Aliphatic C8-C10 were only encountered within the second monitoring round whereas benzene was encountered within all three monitoring rounds. No evidence of hydrocarbon contamination (odours or staining) was encountered during excavation of VW25-04 and two soil samples analysed from within the Made Ground identified benzene concentrations below detectable limits.

The residential AQAC relates to the Air Quality Objective set by Defra for benzene in England and Wales (5 µg $m^{-3}$) as no safe level of exposure is currently recommended (Public Health England, 2019).

#### 5.4.1.4 Summary

Volatiles within groundwater in Area A are not currently considered to present an unacceptable risk to future users or offsite receptors. However, potentially unacceptable risks to human health in relation to possible vapour inhalation from benzene have been identified associated with the Made Ground within Area A. The source of benzene observed in vapour samples from VW25-04 is currently unclear.

### 5.4.2 Area B

#### 5.4.2.1 Soil results

Exceedances of the residential (with plant uptake) $GSAC_{HH}$ for volatile contaminants within samples both above and below 0.8 m bgl were observed within Area B, comprising naphthalene, free cyanide, benzene, 1,2,4-trimethylbenzene, o-xylene, styrene and 2,4-dimethylphenol.

Styrene and 2,4-dimethylphenol were only encountered within MW25-25 at 5.8 m bgl, located within Gasholder B, and o-xylene was only encountered marginally exceeding the $GSAC_{HH}$ within MW25-02 at 5.4 m bgl, located within the vicinity of the former CWG plant. Free cyanide and naphthalene were encountered within both shallow (< 0.8 m bgl) and deeper soils and were located within former features (e.g. gasholders) and general Made Ground. Benzene and 1,2,4-trimethylbenzene were located within deeper soils, however, they were also spread across former features or general Made Ground.

Additionally, various VOCs were encountered above detection limit within soils both above and below 0.8 m bgl.

#### 5.4.2.2 Groundwater results

Exceedances of the residential $GAC_{gwvap}$ have been identified within groundwater samples taken within Area B, comprising naphthalene, mercury (inorganic), benzene, aliphatic C10-12, aromatic C8-10, aromatic C10-12 and 1,2,4-Trimethylbenzene. Exceedances were concentrated within the south and southwest of the site, and within former gasholders and generally correspond to locations where hydrocarbon odours and staining were noted within groundwater.

One marginal exceedance of the commercial $GAC_{gwvap}$ for benzene (concentration of 22mg.$L^{-1}$ compared to the commercial $GAC_{gwvap}$ of 20mg.$L^{-1}$) has been identified within the first of three monitoring rounds at MW25-23B. MW25-23B was recorded as having measurable thicknesses of DNAPL during monitoring. The nearest offsite receptors to this location are residential.

#### 5.4.2.3 Vapour results

Exceedances of the residential AQAC were observed for 1,2,4-trimethylbenzene, benzene, trichloroethene and TPH aliphatic C8-C10. VW25-18 encountered exceedances of 1,2,4-trimethylbenzene within all three monitoring rounds (up to 6.3 times the AQAC) and benzene and TPH aliphatic C8-10 within the second monitoring round only (2.2 and 9.8 times the AQAC respectively). VW25-18 is located in the centre of Area B and encountered Made Ground to over 1.2 m bgl. No evidence of hydrocarbon contamination (odours or staining) was encountered during excavation of VW25-18, however one soil sample analysed from within the Made Ground identified benzene concentrations above detectable limits (0.015 mg.$kg^{-1}$). VW25-18 is located to the north of the former benzol washers. Exceedances of the commercial AQAC were also recorded for 1,2,4-trimethylbenzene (two monitoring rounds) and TPH aliphatic C8-C10 (1 monitoring round) at VW25-18.

Exceedance of the residential AQAC were observed for trichloroethene within the first monitoring round in VW25-15 and for TPH aliphatic C8-10 within the first monitoring round in VW25-09, however, these are considered to be marginal (1.3 and 1.1 times the AQAC's respectively).

Additionally, various VOCs have been encountered above detection limit within vapour samples.

Whilst exceedances of the residential (with plant uptake) $GSAC_{HH}$ for volatile contaminants within soil samples were observed, vapour samples taken from dedicated vapour wells installed across the site did not reflect the same exceedances. The exception is VW25-18. It should also be noted that free cyanide and 2,4-dimethylphenol were not analysed within vapour samples.

#### 5.4.2.4 Summary

There is considered to be a potentially unacceptable risk presented by volatiles within both soil and groundwater to future residential users of the site within Area B. Soil exceedances were encountered across the area, however groundwater exceedances were predominantly within the south and southwest.

Whilst, based on the data, there is considered to be a potentially unacceptable risk to offsite residential receptors due to groundwater vapours migrating offsite, it is noted that there is currently a hydraulic containment unit in place mitigating this potential risk. It is also documented in previous reports that vapour barriers were installed in off-site residential houses constructed downgradient of the site. As such, assuming these are in place and working, the risk to potential off-site residents is likely to be reduced.

### 5.4.3 Area C

#### 5.4.3.1 Soil results

No exceedances of the residential (with plant uptake) $GSAC_{HH}$ for volatile contaminants were recorded within samples from Area C. No VOCs were encountered above detection limit (where no human health criteria exist) within soil samples within Area C.

#### 5.4.3.2 Groundwater results

No exceedances of the residential or commercial $GAC_{gwvap}$ AQAC were observed within groundwater samples from Area C.

#### 5.4.3.3 Vapour results

No exceedances of the residential or commercial AQAC were observed within Area C.

#### 5.4.3.4 Summary

Based on the data recorded to date, volatile contaminants within soil and groundwater in Area C are not considered to present an unacceptable risk to future users or offsite receptors.

# 6. Human Health Generic Quantitative Risk Assessment (Ground Gas)

## 6.1 Introduction

The primary requirement of the GQRA is to assess whether the identified contaminant linkages are considered plausible and could result in the site being considered 'Contaminated Land' as defined by the Statutory Guidance for Part 2A of the Environmental Protection Act 1990 (DEFRA, 2012), and as such further work may be required.

## 6.2 Well Installation and Monitoring Regime

Twenty dedicated vapour/ground gas well monitoring points were installed as part of the investigation to assess migration of ground gas contaminants from on-site sources to human health receptors. A summary of the vapour/ground gas monitoring well installations are provided in Table 9 in Section 5.2.1.

In line with NHBC NF94 (2023), monitoring wells were installed within the Made Ground, outside of groundwater influence, where possible. Gas monitoring (spot) was undertaken across three monitoring visits, including periods of falling atmospheric pressure. Total Organic Carbon (TOC) testing was carried out on Made Ground soil samples, and any putrescible and organic material recorded within intrusive logs is detailed within the Worley Consulting Factual Report.

## 6.3 Methodology

### 6.3.1 Total Organic Carbon Analysis

In line with NHBC NF94 (2023) and Claire RB17, a TOC screening level approach can be used if the sole source of hazardous ground gas is Made Ground (Table 13). In such circumstances where the sources are intrinsically low risk, TOC testing of the source can provide the data for the assessment in lieu of gas monitoring data to allow an appropriate Characteristic Situation to be defined. However, given the sensitivity of the site, both gas monitoring data, and TOC screening has been undertaken.

*Table 13: Limiting values of organic content (Table 1 in Claire RB17)*

| Characteristic Situation | Thickness of Made Ground (m) | Maximum total organic carbon content of Made Ground - TOC (%) | | Comments |
|---|---|---|---|---|
| | | Made Ground | Made Ground in place for > 20 years | |
| 1 | Maximum 5m<br>Average < 3m | ≤1.0 | ≤1.0 | Limiting values based on reported soil organic matter (SOM) content of natural soils up to about 1% |

| Characteristic Situation | Thickness of Made Ground (m) | Maximum total organic carbon content of Made Ground - TOC (%) | | Comments |
|---|---|---|---|---|
| 2 | Maximum 5m Average < 3m | ≤1.5 | ≤3 | Limiting values based on gas generation modelling assuming slow degradation Equilibrium methane concentration in building above <0.01% |
| 3 | Maximum 5m Average < 3m | ≤4 | ≤6 | Limiting values based on gas generation modelling assuming slow degradation Equilibrium methane concentration in building above <0.01% |
| This method can only be used to define characteristic situations up to 3. | Gas monitoring required where TOC is greater than 4% (or 6% in old Made Ground). Gas monitoring results will show whether the high TOC is available and conditions are suitable to generate ground gas. | | | |

Note 1: TOC = DOC x 1.33 (Hesse, 1971).

Note 2: TOC of soil tested in accordance with the method described in "Guidance on sampling and testing of wastes to meet landfill waste acceptance procedures," Environment Agency (2005) and combined with estimate of discrete organic material from forensic description.

Note 3: Where TOC of soil is not representative of degradability (e.g. where it is predominantly ash or clinker) the TOC value used in the assessment should be reduced based on the fraction of degradable organic carbon.

### 6.3.2 Gas Screening Values

In line with BS8485, NHBC NF94 and CIRIA C665, gas screening values (GSV) have been calculated from measured gas concentrations (of methane and carbon dioxide) and monitoring well flow rates, to classify the potential for unacceptable risk to onsite workers, off-site workers and off-site residents from gas generation.

GSV (l.hr-1 of gas) = borehole flow rate (l.hr-1) x (gas concentration (%) / 100)

A Characteristic Situation (CS) has been determined from the adopted GSV taken from Table 14 (Table 2 in BS8485).

*Table 14: CS by site characteristic GSV (Table 2 in BS8485)*

| Characteristic Situation | Hazard Potential | Site characteristic GSV ($l.hr^{-1}$)[A] | Additional Factors |
|---|---|---|---|
| 1 | Very Low | <0.07 | Typically <1% methane concentration and <5% carbon dioxide concentration (otherwise consider an increase to CS2) |
| 2 | Low | 0.07 to 0.7 | Typical measured flow rate <70 L/h (otherwise consider an increase to CS3) |
| 3 | Moderate | 0.7 to <3.5 | - |
| 4 | Moderate to High | 3.5 to <15 | - |
| 5 | High | 15 to <70 | - |
| 6 | Very High | >70 | - |

| Characteristic Situation | Hazard Potential | Site characteristic GSV ($l.hr^{-1}$)[A] | Additional Factors |
|---|---|---|---|

[A] The figures used in this column are empirical.

NOTE The CS is equivalent to the characteristic GSV in CIRIA C665

NOTE 2 The results from the models can be used to determine the scope of gas protection measures needed for a building and to design any necessary underfloor ventilation.

NOTE 3 This approach is of particular use where gas migrates through the ground from a source adjacent to the site (e.g. where landfill gas migration occurs).

NOTE 4 Further information on detailed quantitative risk assessment is provided in the Ground Gas Handbook.

In line with BS8485, offsite commercial buildings are categorised as Type C buildings. Future and offsite residential buildings are categorized as Type A buildings.

## 6.4 Results

### 6.4.1 Total Organic Carbon Analysis

Twenty four samples were analysed for TOC, the majority of which were within the Made Ground. TOC results range between <0.1 and 10%, with an average value of 1.36% and a most common value of 0.75%. Assuming the inert fill material has been in-situ for less than 20 years, 13 of the samples fell below the 1% limiting value for a CS1 site, two of the samples fell below the limiting value for a CS2 site and eight of the samples fell below the limiting value for a CS3 site. One sample (VW25-21) fell above the CS3 classification.

Two samples taken from Area A had TOC values of <0.1 and 0.5%. Area C had TOC values of 0.5, 0.6 and 1.5%. TOC values within Area B varied between <0.1 and 2.7%. Samples taken from within the former refuse area tended to have slightly higher TOC values (commonly 2%).

It should be noted that ash, clinker and coal were noted regularly throughout Made Ground deposits which can give high TOC results that do not represent the risk of gas emissions from such material (it is generally not degradable so cannot produce methane or carbon dioxide). Therefore, dedicated ground gas monitoring was also undertaken within the Made Ground at the site.

### 6.4.2 Ground Gas

Over three rounds, a total of three dedicated installations were monitored within Area A; thirteen in Area B, and one in Area C (details shown within Table 9). Table 15 summarises the ground gas concentrations recorded within each area, with full results presented within the Worley Consulting Factual Report. VW25-24 (Area A), VW25-21, VW25-22 and VW25-25 (Area B) were not considered suitable for monitoring of gas due to 0.26 to 0.57 m water within the base of the wells.

*Table 15: Ground gas results summary*

| Ground gas | Minimum concentration | Maximum concentration | Maximum flow rate (L/hr) | Maximum GSV | Characteristic Situation |
|---|---|---|---|---|---|
| ***Area A*** | | | 0.0 | 0.0 | **CS1** |
| Oxygen (%) | 0.1 | 20.7 | - | - | - |
| Carbon dioxide (%) | <0.01 | 6.0 | - | - | **CS2** |
| Methane (%) | <0.01 | <0.01 | - | - | - |
| Carbon monoxide (ppm) | <0.01 | 10.0 | - | - | - |
| Hydrogen sulphide (ppm) | <0.01 | <0.01 | - | - | - |
| PID (ppm) | <0.01 | 1.6 | - | - | - |
| ***Area B*** | | | 0.2 | 0.0038 | **CS1** |
| Oxygen | 0.6 | 20.7 | - | - | - |
| Carbon dioxide | <0.01 | 3.4 | - | - | - |
| Methane | <0.01 | <0.01 | - | - | - |
| Carbon monoxide | <0.01 | 21.0 | - | - | - |
| Hydrogen sulphide | <0.01 | <0.01 | - | - | - |
| ***Area B*** | | | 0.0 | 0.0 | **CS1** |
| Oxygen | 16.6 | 20.5 | - | - | - |
| Carbon dioxide | 0.1 | 0.7 | - | - | - |
| Methane | <0.01 | <0.01 | - | - | - |
| Carbon monoxide | <0.01 | <0.01 | - | - | - |
| Hydrogen sulphide | <0.01 | <0.01 | - | - | - |

## 6.5 Ground gas risk evaluation

### 6.5.1 Area A

Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. However, concentrations of carbon dioxide greater than 5 % (maximum 6 %) were observed during the second and third round of monitoring at VW25-04 and, with reference to BS8485, an increase to CS2 should be considered. Within this location, generally low oxygen levels were recorded and carbon monoxide was above the detection limit within the first round of monitoring.

Wood (2020) undertook gas monitoring within one location (WS15) installed within the superficial deposits which did not identify elevated ground gas; the gas regime was considered likely to be CS-1.

Groundwater levels are generally high within Area A and Made Ground thicknesses are generally less than 1 m with minimal instances of biodegradable matter. The underlying superficial deposits are predominantly clays with occasional silts and sands.

Overall, the risk from ground gas within Area A is considered to be low.

### 6.5.2 Area B

Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted.

Ground gas monitoring within the former refuse tip (VW25-20A and VW25-21) did not show elevated ground gas concentrations, and intrusive positions within the former feature did not record significant quantities of biodegradable material.

Deep Made Ground has been encountered within former structures across Area B. Trial pits suggest that some of the feature walls may be insitu, whilst some may have been removed or broken down as the result of making way for foundations for the former Blocks. Given the granular nature of the surrounding superficial deposits, there is the potential for ground gas deriving within deep Made Ground to migrate through the superficial deposits, however dedicated monitoring wells within these former features have not resulted in elevated concentrations.

Overall, the risk from ground gas within Area B is considered to be low.

### 6.5.3 Area C

Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted.

Made Ground thicknesses are generally less than 2 m with minimal instances of biodegradable matter. The underlying superficial deposits are predominantly clays with occasional silts and sands.

Overall, the risk from ground gas within Area C is considered to be low.

# 7. Controlled Waters Generic Quantitative Risk Assessment

## 7.1 Introduction

The primary requirement of the controlled waters GQRA is to assess whether the identified potential contaminant linkages are considered plausible and could result in the site being considered 'Contaminated Land' as defined by the Statutory Guidance for Part 2A of the Environmental Protection Act 1990 (DEFRA, 2012), and as such further work may be required.

The risk appraisal utilises data obtained from the Worley Consulting 2025 site investigation as reported herein and the findings of previous investigation phases, where relevant.

## 7.2 Well Installation

Thirty-seven dedicated groundwater monitoring wells were installed as part of the investigation to assess concentrations of dissolved phase contaminants in groundwater. A summary of the groundwater monitoring well installations are provided in Table 16.

*Table 16: Summary of groundwater monitoring well installations*

| Well ID | Screened depth (m AOD) | Screened Lithology | Former Feature |
|---|---|---|---|
| | | **Area A** | |
| MW25-02 | 1-2 | Clay - Wolston Clay | Coke tip |
| MW25-03 | 5-10 | Sand/Clay - Wolston Clay | Coke tip |
| MW25-06 | 2-5 | Sand/Clay - Wolston Sand & Gravel | Coke tip |
| | | **Area B** | |
| MW25-01 | 1.2-3.2 | Sand - Wolston Sand & Gravel | Settling tanks |
| MW25-04A | 1.5-3.5 | Sand/Silt - Wolston Sand & Gravel | Refuse tip |
| MW25-05A | 2.5-6.5 | Sand/Silt - Wolston Sand & Gravel | - |
| MW25-07 | 4-7.3 | Sand - Wolston Sand & Gravel | Refuse tip |
| MW25-08 | 1-2.6 | Made Ground | - |
| MW25-09C | 6.5-9.5 | Made Ground | Possible purifiers |
| MW25-10 | 2-6.4 | Made Ground | Gasholder 4 |
| MW25-11 | 4-7 | Sand - Wolston Sand & Gravel | Primary purifiers |
| MW25-12 | 3.5-7 | Sand - Wolston Sand & Gravel | Oxide shed |
| MW25-13A | 2-5.3 | Made Ground | Gasholder 1 |
| MW25-14 | 1-2 | Made Ground | Purifier catch boxes |

| Well ID | Screened depth (m AOD) | Screened Lithology | Former Feature |
|---|---|---|---|
| MW25-15C | 7-9 | Sand/Clay - Wolston Sand & Gravel | Unknown |
| MW25-16A | 3.4-4.4 | Made Ground | Scrubbers |
| MW25-16A | 1.1-2.2 | Clay - Wolston Clay | |
| MW25-17 | 1-4.2 | Made Ground | Gasholder 3 |
| MW25-18 | 3.5-5 | Sand/Clay - Wolston Sand & Gravel | Tar well |
| MW25-19A | 2.4-6.4 | Sand/Clay - Wolston Sand & Gravel | - |
| MW25-20 | 3.3-6.3 | Sand - Wolston Sand & Gravel | CWG plant |
| MW25-21 | 2.7-5.7 | Sand - Wolston Sand & Gravel | Boiler house |
| MW25-22 | 1-4 | Made Ground | Gasholder 3 |
| MW25-23B | 4-9.5 | Made Ground / Wolston Sand and Gravel | Gasholder A |
| MW25-24 | 4.2-7.2 | Sand - Wolston Sand & Gravel | - |
| MW25-25 | 4-6 | Sand/Clay - Wolston Sand & Gravel | Gasholder B |
| MW25-27 | 2-7.7 | Sand/Clay - Wolston Sand & Gravel | Retort house |
| MW25-29 | 6-10.3 | Sand - Wolston Sand & Gravel | Exhauster |
| MW25-30B | 2-5.3 | Made Ground | Gasholder 2 |
| MW25-31A | 4-8.5 | Clay - Wolston Clay/Sand & Gravel | Meter house |
| MW25-32 | 4.85-6.85 | Sand/Clay - Wolston Sand & Gravel | Benzol washer |
| MW25-33 | 1-6 | Made Ground | Gasholder 1 |
| MW25-34 | 5.2-8.2 | Sand - Wolston Sand & Gravel | Tank |
| MW25-35 | 1.2-4.2 | Sand/Clay - Wolston Sand & Gravel | Refuse tip |
| MW25-36 | 3.5-5 | Sand/Clay - Wolston Sand & Gravel | Reservoir |
| | | **Area C** | |
| MW25-26 | 5-7.2 | Sand - Wolston Sand & Gravel | Gasholder 4 |
| MW25-28A | 5.2-10.2 | Sand - Wolston Sand & Gravel | - |

## 7.3 Non-Aqueous Phase Liquid (NAPL)

DNAPL was encountered within all monitoring rounds within the Wolston Sand and Gravel Member in MW25-23B ranging in thickness between 0.27 and 0.61 m. A sample was collected and analysed. Results are presented in Table 17 below. NAPL was not observed in any other well during monitoring.

*Table 17: DNAPL analysis results – MW25-23B*

| | | | |
|---|---|---|---|
| **Interpretation:** | Coal tar | **Description:** | Dark brown coloured oil |
| **Density @20°C (g/cm3):** | 1.0778 | **Carbon Range:** | 6-40+ |
| **Viscosity:** | Sample is too thick to obtain a viscosity result. | **Boiling Point Range:** | 69-525+ |
| **Age:** | Not possible as relevant markers are either not present or values are above the permitted range | | |
| **Aliphatics (%)** | | **Aromatics (%)** | |
| >C5-C6 | <0.1 | >EC6-EC8 | 2.0 |
| >C6-C8 | 0.2 | >EC8-EC10 | 6.6 |
| >C8-C10 | 0.9 | >EC10-EC12 | 18.9 |
| >C10-C12 | 0.9 | >EC12-EC16 | 14.8 |
| >C12-C16 | 1.0 | >EC16-EC21 | 15.0 |
| >C16-C21 | 0.5 | >EC21-EC35 | 30.1 |
| >C21-C35 | 0.4 | | |

## 7.4 Geological and hydrogeological Conceptual Model

Schematic cross sections produced for the site are presented as Figure 10. The interpreted groundwater flow direction is presented on Figures 11A and 11B.

In general, the geology of the site comprises Made Ground overlying various depositional layers of superficial deposits, onto the underlying bedrock of Mercia Mudstone.

### 7.4.1 Made Ground

Made Ground was deepest within Area B (generally between 0.8 and 2.6 m bgl outside of structures) due to this area being primarily occupied by the former gasworks structures, and it is suspected that areas of the site were made up resulting in the significant level changes towards the north of Area B. Various former features, including historical infilled gasholder tanks, were encountered across Area B resulting in significantly deeper areas of Made Ground (up to 9.45 m bgl) and various obstructions extending into the underlying superficial deposits.

Within Area A, Made Ground was generally shallower, comprising sandy gravel to between 0.5 and 1 m bgl. No significant former features are considered to be present within Area A, however the site was potentially used as a coke tip.

Within Area C, again, Made Ground was generally shallower, comprising slightly silty slightly gravelly sand and slightly silty slightly sandy gravel to between 0.4 and 1.4 m bgl.

### 7.4.2 Superficial Deposits

The superficial deposits appear to be variable across the site, in part due to the significant level changes, but also due to the overall known variability presented by lowland glaciation deposits and the likelihood of them being interbedded and discontinuous. Two retaining walls/banks are present within the north of Area B; one towards former Block 4 and one towards Area A.

The highest ground elevation within the site is to the east; Area C. Here, Oadby Till was encountered below the Made Ground to between 3.7 and 5 m bgl (encountered within MW25-28A and MW25-26, respectively), reflecting BGS records. The Oadby Till Member comprised slightly sandy slightly gravelly clay and is classified as a Secondary Undifferentiated Aquifer, however due to its fine-grained nature, no groundwater flow is expected to occur and the till will likely act as a confining layer above the underlying sands.

Boulder clay and mixed lenses of sand, silt and clay were encountered in the west of the site, within Area B, generally extending laterally below the former Blocks 1 and 2; up to 7.9 m bgl within the centre of the site between MW25-15C and MW25-31A. These become shallower within MW25-20 to the south of the site and are no longer present within MW25-19A to the east of the site. Clay is not recorded within historical boreholes along the southern site boundaries and likely terminates at the level change towards Block 4. The Wolston Sand and Gravel Formation and the Wolston Clay Member are of the same depositional era (Envirocheck, 2025), suggesting they can be interlayered. However, whilst the BGS does not record superficial deposits of clay within this area, it is possible that these deposits represent the Oadby Member. Whilst the predominantly fine-grained nature will restrict some migration of water and contaminants, the deposits appear to be sandy and gravelly in nature, with some groundwater flow recorded during monitoring visits suggesting it is not fully acting as a confining layer.

Celtic (2018) references data concerning ground conditions and water levels on the offsite residential development to the east, which confirmed the discontinuous nature of the inter-bedded granular and cohesive superficial glacial sediments.

The Wolston Sand and Gravel Formation was encountered below the Oadby Member within Area C, with SHT5 recording a basal depth of 14.75 m bgl (100.97 mAOD) in the eastern corner of Area C. The formation extends across Area B, where it lies directly below the Made Ground in the centre of the site (e.g. MW25-19A and MW25-20) and in the south of the site (e.g. CBH124), before extending below boulder clay in the east of Area B. The Wolston Sand and Gravel Formation is generally recorded directly below the Made Ground within the north of Area B (below former Block 4) which is likely due to the level change within this area, and it appears to be reducing in thickness with no sand recorded in MW25-08. The Wolston Sand and Gravel Formation was not encountered within Area A due to its lower elevation, however previous investigations have encountered the formation marginally encroaching on the southwestern corner of Area A. The formation generally comprises slightly gravelly sand, with some areas of increased gravel content. The Wolston Sand and Gravel Member is classified as a Secondary A Aquifer, and monitoring visits recorded groundwater present within the strata across the site.

Wolston Clay Member, designated as unproductive strata, is recorded extending across the entire site. Along the southern site boundary it appears from around 104 m AOD (CBH124), dipping in the centre of the site to around 101.7 m AOD (MW25-15C) before extending northwards at around 103.3 m AOD below former Block 4 and within in Area A; within Area A the formation is encountered directly below the Made Ground. Wolston Clay was recorded at 100.97 mAOD within SHT5 in the east of Area C, suggesting it is dipping towards the east.

Bands of silt and sand were encountered in Area A and to the south of Area B which may be attributed to the Wolston Clay Member as described by the BGS. The silt and sand layers may be both directly below the sand, or interbedded within the clay.

Given the complex superficial geology across the site, the different areas are considered to have different geological models.

### 7.4.3 Bedrock

Bedrock has not been encountered during any intrusive investigation at the site. The bedrock beneath the site is reported to comprise the Merica Mudstone Formation which is described as "red gypsiferous mudstone of the Triassic, with siltstone and sandstone bands, dipping gently to the southwest" (BGS, 2024).

The Mercia Mudstone is classified as a Secondary B Aquifer, however it is likely to be of lower hydraulic conductivity due to the overall fine-grained nature of the deposits.

### 7.4.4 Groundwater

The groundwater regime at the site is considered complex and is influenced by the geology, topography and below-ground structures and services present at the site. A report completed by Celtic (2011) concluded that groundwater flow is predominantly within the Wolston Sand and Gravels with minimal (negligible) flow within the other predominantly cohesive deposits.

The overall groundwater flow is expected to be within the superficial soils. Monitoring visits suggest this extends within the Wolston Sand and Gravel in Area B and C, and through the boulder clay deposits in Area B. In Area A, Celtic (2005) interpreted that perched water was flowing within the Made Ground overlying the Wolston Clay, with no groundwater flow expected to occur within the Wolston Clay due to its high-clay matrix. Monitoring of installations within the Wolston Clay Member in Area C show the resting groundwater level is shallow, sitting at the interface between the Made Ground and underlying clay. The Wolston Clay within this area was variable between silts, sands and clay suggesting there may be some flow within more granular layers of the Wolston Clay.

BGS mapping shows the Wolston Sand and Gravels outcrop in the north of Area B and along the western boundary of Area A, potentially forming a spring line. Surface water run off at the site is primarily intercepted by the complex system of drains throughout both areas of the site, in particular within Area A. Historical plans show that the spring line in the north of the site formerly drained from over ground via drainage ditches passing through a reservoir and settling pond to the Battling Brook. It is possible that these features were incorporated into the current foul/stormwater drainage infrastructure. Although not indicated on the BGS 1:10,000

map, it is possible that this spring line continues through the site along the geological boundary, hence water emanations may be occurring between building Blocks 3 and 4 from behind the retaining wall. The presence of the spring line causing running sands along the embankment in the north-east of the site necessitated the need for drainage channels beneath the car park in the north, discharging directly to perched water in a north-westerly direction (Celtic, 2003). The car park hardstanding has been known to crack, suspected to be due to the pressure from upwelling waters. This may be from groundwater overtopping the flow divide on the southern boundary of the site at a spring line (Wood, 2020). Boreholes MW25-01, MW25-04A and MW25-36, located within the area of Block 4, encountered up to 2 m Wolston Sand above the Wolston Clay Formation. Groundwater levels were high, generally sitting at the top of the sand/base of the Made Ground (105.11 to 105.63 m AOD). In comparison, groundwater levels within Area B were also high, sitting at the top of the Wolston Clay/base of the Made Ground, but were recorded at a lower elevation (104.24 to 102.79 m AOD nearest to the retaining wall). This suggests the spring line may be further to the north. It is considered likely that groundwater contained within the Wolston Sand and Gravel in the north of the site is being managed via foul/stormwater drainage system.

BGS mapping also suggests the formation may outcrop approximately 400 m to the south of the site, before reaching the Sketchley Brook. No spring lines are recorded on historical mapping, however BGS boreholes to the south of the site suggest that the Wolston Sands and Gravels are not continuous towards the Sketchley Brook. The possible spring line is situated below residential development, suggesting that manmade drainage may be in place to drain any former springs where the sands and gravels outcropped. BGS mapping suggests that the sands and gravels do not extend to the Sketchley Brook and, as such, groundwater within this main water bearing unit is unlikely to discharge directly into the Brook.

Towards the west, the residential development lies at a lower elevation (circa 4m: 106m AOD). Celtic (2018) suggest that the groundwater table within the adjacent site is shallower than onsite due to the level change. The report notes that groundwater monitoring on the adjacent housing site (to the west) confirmed a locally westerly groundwater flow direction. It should be noted that this site has been remediated in 2012 under the planning regime, which included the removal of identified shallow hydrocarbon impacts close to the boundary with a treatment area and installation of vapour protection measures in selected residential buildings.

It should also be noted that pumping of the groundwater through the hydraulic containment system may be influencing groundwater flow direction, along with the presence of various below ground features. Perched/contained water is likely to be present within these features (e.g. as recorded within Gasholder 1).

Groundwater monitoring suggests that groundwater levels in the south of the site are relatively flat; levels of 105.7 to 105.76 m AOD were recorded on 5th June 2024 within boreholes installed in the Wolston Sand and Gravel southwards of MW25-29. Within Area C, groundwater was encountered deeper, within the Wolston Sand and Gravels, at around 7 m bgl (107 m AOD).

With regards to drinking water abstractions, the site is not located within a Source Protection Zone. There is one groundwater abstraction within 1 km of the site, located 860 m south for

general farming and domestic use. Celtic (2003) suggest this abstraction is 15 m bgl situated within the Wolston Sand and Gravels, abstracting 900 $m^3$pa. The location of abstraction provided by Landmark (2024) correlates with a DPD depot, with BGS mapping suggesting Wolston Sand and Gravels are not present at this location. Despite this, permeable superficial deposits can sometimes be used for local groundwater abstraction, hence being classified as a Secondary A Aquifer.

There are two surface water abstractions from Sketchley Brook within 1 km of the site: 650 m south-east of the site, for industrial, commercial and public services (laundry); and 890 m south-east, for process water uses.

There are no licensed surface abstractions from Battling Brook within 1 km of the site (Landmark, 2024).

With regards to pathways to underlying groundwater, the proposed development (for all three areas) includes back gardens and areas of communal soft standing; this will allow infiltration of rainwater into the underlying soils. The site is located within a Flood Zone 1, defined as having less than 0.1% annual probability of flooding, suggesting there is a low probability of flooding from rivers (EA, 2024).

### 7.4.5 Summary

Based on the site geology and groundwater levels recorded within wells during monitoring visits the following conclusions are currently drawn:

- Groundwater flow within Area A appears to reflect that of previous findings in that it is generally northwesterly. Groundwater is likely to be contained within the sand and silt layers of the Wolston Clay deposits, with some perched flow within the Made Ground anticipated. The Battling Brook is considered to be a potential receptor of groundwater within Area A. Drainage systems installed within Area A are also likely to capture groundwater. Given the Wolston Clay Member is designated as unproductive strata, and no groundwater or surface water abstractions are recorded to the north, human health via consumption of drinking water is not considered to be viable receptor within Area A.
- Groundwater flow within Area B is likely to be towards the west, potentially becoming southwest in the south of Area B and northwest in the north of Area B. Groundwater flow is predominantly contained within the Wolston Sand and Gravels, though groundwater has been recorded within the variable boulder clay located overlying the Wolston Sand in the centre of the site, where it may flow through more granular layers. Groundwater is shallow in the north of the site, towards the spring line, and whilst some groundwater may be reaching Area C, it is believed a large part is influenced by drainage systems towards the north.
- Towards the west, the groundwater flows off-site to the neighbouring (remediated) residential development. A hydraulic containment system is currently operating to reduce flow of NAPL offsite and treat dissolved phase; the operation of which may locally influence the groundwater regime. Whilst flow may be south west towards the Sketchley Brook, the Wolston Sand and Gravels do not appear to be laterally continuous, with the unit thinning

to the south west and disappearing before reaching the brook. This suggests that groundwater within the sands is unlikely flow directly into the Brook via groundwater flow; however, there is the potential for entry via drainage and streams that drain the unit. As the Wolston Sand and Gravels have been designated a Secondary A Aquifer, there is the potential for abstraction for drinking water purposes.

- Within Area C, Oadby Till was encountered below the Made Ground in the east of the area and is classified a Secondary Undifferentiated Aquifer, however due to its fine-grained cohesive nature, no groundwater flow is expected to occur and the till will likely act as a confining layer above the underlying sands. Groundwater was encountered within the underlying Wolston Sand and Gravels.

Given the complex groundwater regime, Area A is considered to have a different groundwater conceptual model to Areas B and C. It should be reiterated that the site presents variable superficial lithologies, varying between granular and cohesive units, which adds an additional layer of complexity to the conceptual model.

## 7.5 Methodology

As part of the GQRA, leachate, perched water, groundwater, and surface water analytical results from the site investigation have been screened against suitable generic assessment criteria ($GAC_{CW}$) for the protection of controlled waters receptors.

A total of three monitoring rounds were conducted with the collection of 140 groundwater samples (including duplicates) and two surface water samples each round. Forty four soil samples were submitted for soil leachate analyses across the site.

The controlled waters risk evaluation considers the findings of the leachate, perched water, groundwater and surface water sample analyses in addition to other relevant site information as part of an overall 'lines of evidence' approach to the assessment.

Based on the conceptual understanding of the site, the assessment criteria for the screening of soil leachate, perched water, groundwater and surface water contaminant data have been selected in line with the Water Framework Directive Direction (England and Wales) 2015.

A selection of Environmental Quality Standards (EQS) (fresh waters) obtained from the Environment Agency (2020) have been used to assess risk to the identified surface waters; the Battling Brook to the north and Sketchley Brook to the south.

A selection of Drinking Water Standards (DWS) obtained from the Water Supply (Water Quality) Regulations (2010) have been applied for soil leachate, perched water and groundwater analyses. This is due to the superficial Wolston Sand & Gravel Member being classified as a Secondary A Aquifer with one abstraction noted 860 m south of the site for general farming and domestic use. Two surface water abstractions are also noted from Sketchley Brook within 1 km of the site: 650 m south-east of the site, for industrial, commercial and public services (laundry) and 890 m south-east, for process water uses. DWS are only considered applicable to Area's B and C.

Should the laboratory limit of detection exceed the EQS/DWS, only recordable concentrations will be considered as an exceedance.

A hazard quotient (HQ) in the context of this assessment is the ratio of the measured concentration of a contaminant and the assessment criteria at which exposure results in a minimal/negligible risk level. If the hazard quotient is greater than 1, then exposure to that concentration is above the minimal/negligible risk level.

A trivial exceedance, as per Groundwater Protection Technical Guidance (Environment Agency, 2017), is any concentration whereby:

- detections of hazardous substances are not regarded as representative; or,
- the concentration is extremely close to the screening standard.

No exceedance will be regarded as trivial when it:

- results in harm to groundwater, people or the environment, now or in the future; or,
- causes a consistent, statistically significant trend, including increase frequency of contaminant spikes.

Adopted assessment criteria are presented within Appendix D.

## 7.6 Comparison of Site Data to Derived $GSAC_{CW}$

### 7.6.1 Soil leachate

To assess the likelihood of unacceptable risk to controlled waters from leaching of contaminants, soil leachate analysis has been included in the controlled waters risk assessment.

Out of the 44 samples collected, three were taken from Area A, 40 from Area B and one from Area C. All samples were collected from boreholes, vapour wells or trial pits spread across the site.

#### 7.6.1.1 EQS

Concentrations of contaminants measured in excess of the EQS within soil leachate samples taken from Area A and C are presented in Table 18 and exceedances within Area B are presented within Table 19. Exceedances of the EQS are illustrated on Figures 12A and 12B. Screened analytical soil leachate data is presented in Appended Table E.

*Table 18: Exceedances of EQS criteria in leachate samples – Area A and C*

| Contaminant | Site data ($mg.L^{-1}$) | | EQS ($mg.L^{-1}$) | | | |
|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl) |
| ***Area A*** | | | | | | |

| Contaminant | Site data (mg.L$^{-1}$) | | EQS (mg.L$^{-1}$) | | | |
|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl) |
| Ammoniacal N (total) as N | 2.18 | 0.78 | 1.1 | 1 of 3 | 2.5 | MW25-02 at 0.5 |
| Chromium (Total) | 0.0048 | <0.0019 | 0.0034 | | 1.4 | |
| Lead | 0.004 | <0.002 | 0.0012 | | 3.3 | |
| Nickel | 0.005 | <0.0019 | 0.004 | | 1.3 | |
| Iron | 4.2 | 1.63 | 1 | | 4.2 | |
| Copper | 0.0047 | 0.0022 | 0.001 | 2 of 3 | 4.7 | MW25-02 at 0.5<br>MW25-06 at 0.2 |
| Fluoranthene | 0.00009 | <0.00005 | 0.0000063 | 2 of 3 | 14 | MW25-02 at 0.5<br>MW25-03 at 0.3 |
| ***Area C*** | | | | | | |
| Copper | 0.011 | | 0.001 | 1 of 1 | 11 | MW25-28 at 0.6 |
| Lead | 0.015 | | 0.0012 | | 13 | |
| Iron | 1.4 | | 1 | | 1.4 | |

*HQ = Hazard Quotient of maximum concentration*

*Table 19: Exceedances of EQS criteria in leachate samples – Area B*

| Contaminant | Site data (mg.L$^{-1}$) | | EQS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl)* | Former feature (no. of samples) |
| pH | 10.5 | 8.1 | 6-9 | 5 of 40 | - | MW25-10 at 2.5<br>MW25-22 at 1.4-4.0<br>TP25-20 at 1.8<br>MW25-31A at 1.3<br>MW25-34 at 1.3 | Gasholder 2<br>Gasholder 3<br>Purifier catch boxes Meter house<br>Tank |
| Easily liberatable cyanide | 0.087 | <0.01 | 0.001 | 2 of 40 | 87 | TP25-20 at 1.8<br>MW25-08 at 1.0 | Purifier catch boxes Made Ground |
| Ammoniacal N (total) as N | 31.11 | <3.17 | 1.1 | 17 of 40 | 28 | Highest within TP25-20, MW25-16A and MW25-27 | Spread across former features / general MGR but higher values within catch box, scrubbers & retort house |
| Cresols (Total) | 2.322 | <0.0585 | 0.1 | 1 of 40 | 23 | MW25-27 at 3.3 | Retort house |
| Phenol | 0.2918 | <0.0078 | 0.0077 | 1 of 40 | 38 | MW25-22 1.4-4 | Gasholder 3 |
| Naphthalene | 2.1455 | <0.16254 | 0.002 | 13 of 40 | 1072 | Highest within TP25-20 and MW25-13A | Spread across former features. Highest in Gasholder 1 and catch box |
| Anthracene | 0.00685 | <0.00049 | 0.0001 | 9 of 40 | 69 | Highest within MW25-10 | Spread across former features |
| Fluoranthene | 0.00517 | <0.00048 | 0.0000063 | 26 of 40 | 820 | Highest within MW25-27 | Spread across former features / general MGR |
| Benzo[b]fluoranthene | 0.00053 | <0.00003 | 0.000017 | 2 of 40 | 31 | MW25-30B at 2.2<br>MW25-27 at 3.3 | Gasholder 2<br>Retort house |

| Contaminant | Site data (mg.L$^{-1}$) | | EQS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl)* | Former feature (no. of samples) |
| Benzo[k]fluoranthene | 0.00021 | <0.00002 | 0.000017 | 2 of 40 | 12 | MW25-30B at 2.2<br>MW25-27 at 3.3 | Gasholder 2<br>Retort house |
| Benzo[a]pyrene | 0.00061 | <0.00002 | 0.00000017 | 1 of 40 | 3588 | MW25-30B at 2.2 | Gasholder 2 |
| Benzo[ghi]perylene | 0.00013 | <0.00002 | 0.0000082 | 3 of 40 | 16 | TP25-19 at 1.6<br>MW25-27 at 3.3<br>MW25-24 at 0.4 | Refuse tip<br>Retort house<br>Made Ground |
| Arsenic | 0.055 | <0.008 | 0.05 | 1 of 40 | 1.1 | MW25-29 at 0.3 | Exhauster |
| Cadmium | 0.00354 | <0.00017 | 0.00025 | 1 of 40 | 14.2 | MW25-07 at 1.5 | Refuse tip |
| Chromium (VI) | 0.007 | <0.005 | 0.0034 | 1 of 40 | 2 | MW25-27 at 3.3 | Retort house |
| Chromium (Total) | 0.0072 | <0.0016 | 0.0034 | 5 of 40 | 2.1 | MW25-01 at 0.45<br>MW25-21 at 0.3<br>MW25-27 at 3.3<br>VW25-17 at 0.25<br>MW25-19A at 1.3 | Refuse tip<br>Boiler house<br>Retort house<br>Unknown<br>Made Ground |
| Copper | 0.0278 | <0.0069 | 0.001 | 36 of 40 | 28 | Highest within MW25-25 | Spread across former features / general MGR |
| Lead | 0.11 | <0.005 | 0.0012 | 19 of 40 | 92 | Highest within MW25-19A | Spread across former features / general MGR |
| Mercury (inorganic) | 0.00159 | <0.0005 | 0.00007 | 1 of 40 | 23 | MW25-36 at 2.9 | Reservoir |
| Nickel | 0.0961 | <0.006 | 0.004 | 11 of 40 | 24 | Highest within MW25-07 | Spread across former features / general MGR, highest/common in the refuse tip |

| Contaminant | Site data (mg.L$^{-1}$) | | EQS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl)* | Former feature (no. of samples) |
| Zinc | 0.7297 | <0.0246 | 0.0123 | 7 of 40 | 59 | Highest within MW25-07 | Spread across former features / general MGR |
| Iron | 19 | 1.282 | 1 | 10 of 40 | 19 | Highest within TP25-20 | Spread across former features / general MGR |
| Benzene | 0.13 | <0.009 | 0.01 | 6 of 40 | 13 | Highest within MW25-10 | Spread across former features |
| Toluene | 0.29 | <0.017 | 0.074 | 3 of 40 | 3.9 | MW25-13A at 2.7<br>MW25-10 at 2.5<br>MW25-30B at 2.2 | Gasholder 1<br>Gasholder 2<br>Gasholder 2 |
| Ethylbenzene | 0.12 | <0.013 | 0.02 | 6 of 40 | 6 | Highest within MW25-10 | Spread across former features |
| Xylenes (Total of m and p, o-xylenes) | 0.41 | <0.048 | 0.03 | 6 of 40 | 14 | Highest within MW25-10 | Spread across former features |

*HQ = Hazard Quotient of maximum concentration*

** locations listed when <5 exceedances identified.*

#### 7.6.1.2 DWS

Concentrations of contaminants measured in excess of the DWS (and WHO guideline values for TPH – referred to after as 'Combined DWS') within soil leachate samples taken from Area C are presented in Table 20 and exceedances within Area B are presented within Table 21. Exceedances of the DWS are illustrated on Figure 13. Screened analytical soil leachate data is presented in Appended Table E.

Comparison of leachate samples from Area A with DWS is not considered to be appropriate given the ground model (Section 0).

*Table 20: Exceedances of DWS criteria in leachate samples – Area C*

| Contaminant | Site data (mg.L$^{-1}$) | | DWS (mg.L$^{-1}$) | | | |
|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl) |
| Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | 0.54 | | 0.5 | 1 of 1 | 1.1 | MW25-28 at 0.6 |
| Lead | 0.015 | | 0.01 | | 1.5 | |
| Iron | 1.4 | | 0.2 | | 7 | |

*HQ = Hazard Quotient of maximum concentration*

*Table 21: Exceedances of DWS criteria in leachate samples – Area B*

| Contaminant | Site data (mg.L$^{-1}$) | | DWS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl)* | Former feature (no. of samples) |
| pH | 10.5 | 8.1 | 6.5-9.5 | 5 of 40 | - | MW25-10 at 2.5<br>MW25-22 at 1.4-4.0<br>TP25-20 at 1.8<br>MW25-31A at 1.3<br>MW25-34 at 1.3 | Gasholder 2<br>Gasholder 3<br>Purifier catch boxes Meter house<br>Tank |
| Total cyanide | 50 | <1.51 | 0.05 | 27 of 40 | 1,000 | Highest within TP25-20 | Spread across former features / general MGR, but significantly high in catch box |
| Easily liberatable cyanide | 0.087 | <0.01 | 0.05 | 1 of 40 | 1.7 | TP25-20 at 1.8 | Catch box |
| Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | 40 | <4.072 | 0.5 | 22 of 40 | 80 | Highest within TP25-20, MW25-16A and MW25-27 | Spread across former features / general MGR but higher values within catch box, scrubbers & retort house |
| Benzo[a]pyrene | 0.00061 | <0.00002 | 0.00001 | 1 of 40 | 61 | MW25-30B at 2.2 | Gasholder 2 |
| Arsenic | 0.055 | <0.008 | 0.01 | 8 of 40 | 5.5 | Highest within MW25-29 | Spread across former features / general MGR |
| Lead | 0.11 | <0.005 | 0.01 | 2 of 40 | 11 | MW25-19A at 1.3<br>MW25-07 at 1.5 | Made Ground<br>Refuse tip |
| Mercury (inorganic) | 0.00159 | <0.0005 | 0.001 | 1 of 40 | 1.6 | MW25-36 at 2.9 | Reservoir |
| Nickel | 0.0961 | <0.006 | 0.02 | 1 of 40 | 4.8 | MW25-07 at 1.5 | Refuse tip |

| Contaminant | Site data (mg.L$^{-1}$) | | DWS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | GSAC$_{CW}$ | No. of Exceedances | HQ | Exceedance locations (ID & depth – m bgl)* | Former feature (no. of samples) |
| Iron | 19 | 1.282 | 0.2 | 26 of 40 | 95 | Highest within TP25-20 | Spread across former features / general MGR |
| Benzene | 0.13 | <0.009 | 0.001 | 9 of 40 | 130 | Highest within MW25-10 | Spread across former features |
| Aromatic C10 – C12 | 0.55 | <0.11 | 0.09 | 6 of 23 | 6 | Highest within MW25-10 | Spread across former features / general MGR |
| Aromatic C12 – C16 | 10.1 | <1.42 | 0.09 | 16 of 23 | 112 | Highest within MW25-27 | |
| Aromatic C16 – C21 | 2.07 | <0.55 | 0.09 | 16 of 23 | 23 | Highest within MW25-13A | |
| Aromatic C21 – C35 | 0.5 | <0.17 | 0.09 | 13 of 23 | 5.6 | Highest within TP25-18 | |

*HQ = Hazard Quotient of maximum concentration*

** locations listed when <5 exceedances identified.*

### 7.6.2 Groundwater

To assess the likelihood of unacceptable risks to controlled waters from dissolved phase contaminants in groundwater, sample results from the monitoring wells have compared against suitable GAC.

Out of the 140 samples collected, 15 were taken from three wells in Area A (including duplicates), 121 were taken from 26 wells in Area B (including duplicates), and four from one well in Area C (including a duplicate)..

#### 7.6.2.1 EQS

Concentrations of contaminants measured in excess of the EQS within Area A and C are presented in Table 18 and exceedances within Area B are presented within Table 19. Exceedances of the EQS are illustrated on Figures 14A and 14B. Screened analytical soil leachate data is presented in Appended Table F.

*Table 22: Exceedances of EQS criteria in groundwater samples – Area A and C*

| Contaminant | Site data ($mg.L^{-1}$) | | EQS ($mg.L^{-1}$) | | | |
|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations & monitoring rounds |
| ***Area A*** | | | | | | |
| Copper | 0.0031 | 0.0019 | 0.001 | 15 of 15 | 3.1 | All locations |
| Nickel | 0.0041 | 0.0025 | 0.004 | 1 of 15 | 1 | 1 of 3 (1st) monitoring rounds at MW25-03 |
| Zinc | 0.0294 | 0.0048 | 0.0123 | 1 of 15 | 2.4 | 1 of 3 (3rd) monitoring rounds at MW25-02 |
| ***Area C*** | | | | | | |
| Nickel | 0.0049 | 0.004 | 0.004 | 1 of 4 | 1.2 | 1 of 3 (2nd) monitoring rounds at MW25-28A |
| Copper | 0.0041 | 0.0024 | 0.001 | 4 of 4 | 4.1 | All monitoring rounds at MW25-28A |

*HQ = Hazard Quotient of maximum concentration*

*Table 23: Exceedances of EQS criteria in groundwater samples – Area B*

| Contaminant | Site data (mg.L$^{-1}$) | | EQS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations & monitoring rounds | Former feature (no. of samples) |
| pH | 11.5 | 7.6 | 6-9 | 12 of 121 | - | MW25-10 – all rounds<br>MW25-30B – all rounds<br>MW25-17 – all rounds<br>MW25-22 – all rounds | Gasholder 2<br>Gasholder 2<br>Gasholder 3<br>Gasholder 3 |
| Easily liberatable cyanide | 0.07 | <0.01 | 0.001 | 14 of 121 | 70 | MW25-09C – all rounds<br>MW25-10 – all rounds<br>MW25-14 – all rounds<br>MW25-08 – 1 of 3 (3rd)<br>MW25-16A-D – 2 of 3 (1st & 3rd)<br>MW25-16A-S – 1 of 3 (3rd)<br>MW25-18 – 1 of 3 (3rd) | Possible purifiers<br>Gasholder 2<br>Purifier catch boxes General area<br>Scrubbers<br>Scrubbers<br>Tar well |
| Sulphate | 2220 | 545.662 | 400 | 62 of 121 | 5.6 | Spread across boreholes. Highest within MW25-17. | Spread across former features / general area |
| Chloride | 1900 | 446.72 | 250 | 63 of 121 | 7.6 | Spread across boreholes. Highest within MW25-17. | Spread across former features / general area |
| Ammoniacal N (total) as N | 528.9 | <42.073497 | 1.1 | 92 of 121 | 481 | Spread across boreholes. Significantly higher within:<br>MW25-27<br>MW25-16A-D<br>MW25-32 | Retort house<br>Scrubbers<br>Benzol washer |
| Cresols (Total) | 50 | <1.3943 | 0.1 | 15 of 121 | 500 | Generally sporadic across monitoring rounds.<br>Significantly higher within MW25-27 | Retort house |

| Contaminant | Site data (mg.L$^{-1}$) | | EQS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations & monitoring rounds | Former feature (no. of samples) |
| Phenol | 56 | <0.9463 | 0.0077 | 39 of 121 | 7273 | Significantly higher within 2nd round at MW25-27 | Retort house |
| Naphthalene | 6.8 | <0.46322 | 0.002 | 55 of 121 | 3400 | Highest within MW25-23B, MW25-16 and MW25-27. Encountered within all rounds in 11 boreholes. Sporadic across monitoring rounds within 14 boreholes. | Encountered within all gasholders, some former features & the general area. |
| Anthracene | 0.36 | <0.00742 | 0.0001 | 29 of 121 | 3600 | Encountered within all rounds in MW25-23B, MW25-25 and MW25-33. Sporadic across monitoring rounds within 13 boreholes. | Encountered within all gasholders, some former features & the general area. |
| Fluoranthene | 0.81 | <0.01337 | 0.0000063 | 52 of 121 | 128571 | Encountered within all rounds in 11 boreholes. Sporadic across monitoring rounds within 11 boreholes. | Encountered within all gasholders, some former features & the general area. |
| Benzo[b]fluoranthene | 0.28 | <0.00342 | 0.000017 | 17 of 121 | 16471 | Sporadic across monitoring rounds within 12 boreholes. | Spread across former features / general area |
| Benzo[k]fluoranthene | 0.13 | <0.00161 | 0.000017 | 17 of 121 | 7647 | Sporadic across monitoring rounds within 13 boreholes. | Spread across former features / general area |
| Benzo[a]pyrene | 0.27 | <0.0034 | 0.00000017 | 18 of 121 | 1588235 | Sporadic across monitoring rounds within 13 boreholes. | Spread across former features / general area |
| Benzo[ghi]perylene | 0.13 | <0.00159 | 0.0000082 | 21 of 121 | 15854 | Encountered within all rounds in MW25-25. Sporadic across monitoring rounds within 13 boreholes. | Spread across former features / general area. |
| Iron | 4.4 | <0.529 | 1 | 20 of 121 | 4.4 | Encountered within all rounds in MW25-10, MW25-14, MW25-27 and MW25-30B. Sporadic across | Spread across former features / general area. |

| Contaminant | Site data (mg.L$^{-1}$) | | EQS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations & monitoring rounds | Former feature (no. of samples) |
| | | | | | | monitoring rounds within 7 boreholes. | |
| Arsenic | 0.088 | 0.00884 | 0.05 | 6 of 121 | 1.8 | MW25-10 – all rounds<br>MW25-30B – 1 of 3 (3rd)<br>MW25-17 – 1 of 3 (1st)<br>MW25-16A-S – 1 of 3 (3rd) | Gasholder 2<br>Gasholder 2<br>Gasholder 3<br>Scrubbers |
| Cadmium | 0.00073 | <0.00008 | 0.00025 | 9 of 121 | 2.9 | CBH104 – all rounds<br>CBH108 – 1 of 3 (2nd)<br>CBH124 – all rounds<br>MW25-07 – 2 of 3 (2nd & 3rd) | Western boundary<br>Western boundary<br>Southwestern corner<br>Refuse tip |
| Chromium (Total) | 0.0064 | <0.0007 | 0.0034 | 4 of 121 | 1.9 | MW25-14 – 1 of 3 (2nd)<br>MW25-27 – all rounds | Purifier catch boxes Retort house |
| Copper | 0.017 | <0.0033 | 0.001 | 106 of 121 | 17 | Majority of locations | Spread across former features / general area |
| Lead | 0.0052 | <0.0003 | 0.0012 | 2 of 121 | 4.3 | CBH104 – 1 of 3 (3rd)<br>MW25-10 – 1 of 3 (2nd) | Western boundary<br>Gasholder 2 |
| Mercury (inorganic) | 0.00199 | <0.0001 | 0.00007 | 9 of 121 | 28 | MW25-10 – all rounds<br>MW25-17 – all rounds<br>MW25-22 – all rounds | Gasholder 2<br>Gasholder 3<br>Gasholder 3 |
| Nickel | 0.023 | 0.0056 | 0.004 | 69 of 121 | 5.8 | Spread across boreholes. Highest within MW25-17. | Spread across former features / general area |
| Zinc | 0.0499 | 0.006 | 0.0123 | 15 of 121 | 4.1 | Encountered within all rounds in CBH102, CBH104, CBH124. Sporadic across monitoring rounds within 6 boreholes. | Spread across former features / general area |

| Contaminant | Site data (mg.L$^{-1}$) | | EQS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations & monitoring rounds | Former feature (no. of samples) |
| Benzene | 22 | <0.855 | 0.01 | 37 of 121 | 2200 | Encountered within all rounds in 10 boreholes. Sporadic across monitoring rounds within 5 boreholes. | Encountered within Gasholders 2, A & B and some former features. |
| Toluene | 14 | <0.411 | 0.074 | 23 of 121 | 189 | Encountered within all rounds in 7 boreholes. Sporadic across monitoring rounds within 2 boreholes. | Encountered within Gasholders 2, A & B and some former features. |
| Ethylbenzene | 0.39 | <0.023 | 0.02 | 18 of 121 | 20 | Encountered within all rounds in 5 boreholes. Sporadic across monitoring rounds within 3 boreholes. | Encountered within Gasholders 2 & A and some former features. |
| Xylenes (Total of m and p, o-xylenes) | 6.1 | <0.237 | 0.03 | 34 of 121 | 203 | Encountered within all rounds in 9 boreholes. Sporadic across monitoring rounds within 4 boreholes. | Encountered within Gasholders 2, A & B and some former features. |
| Styrene | 2.27 | <0.253 | 0.05 | 6 of 21 | 45 | MW25-10 – all rounds<br>MW25-23B – all rounds | Gasholder 2<br>Gasholder A |

*HQ = Hazard Quotient of maximum concentration*

#### 7.6.2.2 DWS

Concentrations of contaminants measured in excess of the combined DWS within groundwater samples taken from Area B are presented within Table 21. Exceedances of the DWS are illustrated on Figure 15. Screened analytical groundwater data is presented in Appended Table F.

No contaminants were measured in excess of the combined DWS within groundwater samples taken from Area C.

Again, comparison of groundwater samples within Area A with DWS is not considered to be appropriate given the ground model (Section 0).

*Table 24: Exceedances of combined DWS criteria in groundwater samples – Area B*

| Contaminant | Site data ($mg.L^{-1}$) | | DWS ($mg.L^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations & monitoring rounds | Former feature (no. of samples) |
| pH | 11.5 | 7.6 | 6.5<9.5 | 12 of 121 | - | MW25-10 – all rounds<br>MW25-30B – all rounds<br>MW25-17 – all rounds<br>MW25-22 – all rounds | Gasholder 2<br>Gasholder 2<br>Gasholder 3<br>Gasholder 3 |
| Conductivity | 7200 | 2513.6 | 2500 | 36 of 121 | 2.9 | Encountered within all rounds in 10 boreholes. Sporadic across monitoring rounds within 2 boreholes. | Spread across former features / general area |
| Cyanide (Total) (as CN) | 8.6 | <0.77 | 0.05 | 90 of 121 | 172 | Spread across boreholes. Highest within MW25-10 and MW25-14. | Spread across former features / general area. Highest within Gasholder 2 and purifier catch boxes |
| Easily liberatable cyanide | 0.07 | <0.01 | 0.05 | 1 of 121 | 1.4 | MW25-14 – 1 of 3 ($2^{nd}$) | Purifier catch boxes |
| Sulphate | 2220 | 545.66 | 250 | 84 of 121 | 8.9 | Spread across boreholes. Highest within MW25-17. | Spread across former features / general area |
| Chloride | 1900 | 446.72 | 250 | 63 of 121 | 7.6 | Spread across boreholes. Highest within MW25-17. | Spread across former features / general area |
| Ammonium as NH4 | 680 | <54.09 | 0.5 | 102 of 121 | 1360 | Spread across boreholes. Significantly higher within:<br>MW25-27<br>MW25-16A-D<br>MW25-32 | Retort house<br>Scrubbers<br>Benzol washer |
| Benzo[a]pyrene | 0.27 | <0.0034 | 0.00001 | 18 of 121 | 27000 | Sporadic across monitoring rounds within 13 boreholes. | Spread across former features / general area |

| Contaminant | Site data (mg.L$^{-1}$) | | DWS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations & monitoring rounds | Former feature (no. of samples) |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | 0.65 | <0.008 | 0.0001 | 16 of 121 | 6500 | Sporadic across monitoring rounds within 11 boreholes. | Spread across former features / general area |
| Iron | 4.4 | <0.529 | 0.2 | 65 of 121 | 22 | Encountered within all rounds in 17 boreholes. Sporadic across monitoring rounds within 11 boreholes. | Spread across former features / general area. |
| Arsenic | 0.088 | 0.0088 | 0.01 | 26 of 121 | 8.8 | Encountered within all rounds in MW25-10, MW25-30B, MW25-17, MW25-22 and MW25-16A-S. Sporadic across monitoring rounds within 9 boreholes. | Consistent within Gasholder 2, Gasholder 3 and Scrubbers |
| Mercury (inorganic) | 0.00199 | <0.0001 | 0.001 | 3 of 121 | 2.0 | MW25-17 – all rounds | Gasholder 3 |
| Nickel | 0.023 | 0.0056 | 0.02 | 2 of 121 | 1.2 | MW25-17 – 1 of 3 (1$^{st}$)<br>MW25-14 – 1 of 3 (2$^{nd}$) | Gasholder 2<br>Purifier catch boxes |
| Selenium | 0.015 | <0.0026 | 0.01 | 2 of 121 | 1.5 | MW25-17 – 2 of 3 (1$^{st}$ & 2$^{nd}$) | Gasholder 2 |
| Benzene | 22 | <0.855 | 0.001 | 38 of 121 | 22000 | Encountered within all rounds in 10 boreholes. Sporadic across monitoring rounds within 6 boreholes. | Encountered within Gasholders 2, A & B and some former features. |
| Toluene | 14 | <0.41 | 0.7 | 9 of 121 | 20 | Encountered within all rounds in MW25-23B at higher concentrations. Sporadic across monitoring rounds within 5 boreholes. | Consistent within Gasholder A. |

| Contaminant | Site data (mg.L$^{-1}$) | | DWS (mg.L$^{-1}$) | | | | |
|---|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations & monitoring rounds | Former feature (no. of samples) |
| Ethylbenzene | 0.39 | <0.023 | 0.3 | 2 of 121 | 1.3 | MW25-10 – 1 of 3 (3rd)<br>MW25-23B – 1 of 3 (3rd) | Gasholder 2<br>Gasholder A |
| Xylenes (Total of m and p, o-xylenes) | 6.1 | <0.237 | 0.5 | 13 of 121 | 12.2 | Encountered within all rounds in MW25-23B. Sporadic across rounds within 7 boreholes. | Consistent within Gasholder A |
| Aliphatic C10 – C12 | 3.11 | <0.07 | 0.3 | 4 of 121 | 10 | MW25-33 – 1 of 3 (2nd)<br>MW25-23B – 1 of 3 (3rd)<br>MW25-27 – 2 of 3 (2nd & 3rd) | Gasholder 1<br>Gasholder A<br>Retort house |
| Aromatic C10 – C12 | 156 | <6.02 | 0.09 | 50 of 121 | 1733 | Encountered within all rounds in 16 boreholes. Sporadic across monitoring rounds within 1 borehole. High in MW25-23B and MW25-16A but significantly higher in MW25-27. | Encountered within all gasholders and some former features. |
| Aromatic C12 – C16 | 33.7 | <1.89 | 0.09 | 52 of 121 | 374 | | |
| Aromatic C16 – C21 | 9.17 | <0.41 | 0.09 | 47 of 121 | 102 | Encountered within all rounds in 14 boreholes. Sporadic across monitoring rounds within 3 boreholes. Sporadically high in MW25-23B and MW25-16A. | Encountered within all gasholders and some former features. |
| Aromatic C21 – C35 | 8 | <0.38 | 0.09 | 51 of 121 | 89 | Encountered within all rounds in 14 boreholes. Sporadic across monitoring rounds within 5 boreholes. Sporadically high in MW25-23B and MW25-16A. | Encountered within all gasholders and some former features. |
| Styrene | 2.27 | <0.25 | 0.02 | 6 of 21 | 114 | MW25-10 – all rounds<br>MW25-23B – all rounds | Gasholder 2<br>Gasholder A |

*HQ = Hazard Quotient of maximum concentration*

### 7.6.3 Surface water

Six surface water samples were analysed from the Battling Brook over three monitoring rounds; three were taken from an upstream location and three from downstream. Concentrations of contaminants measured in excess of the EQS within surface water samples are presented in Table 25. Exceedances of the EQS are illustrated on Figure 16. Screened analytical soil leachate data is presented in Appended Table G.

*Table 25: Exceedances of EQS criteria in surface samples from Battling Brook*

| Contaminant | Site data ($mg.L^{-1}$) | | EQS ($mg.L^{-1}$) | | | |
|---|---|---|---|---|---|---|
| | Max. Conc. | Average Conc. | $GSAC_{CW}$ | No. of Exceedances | HQ | Exceedance locations & monitoring rounds |
| Benzo[b]fluoranthene | 0.00006 | <0.00002 | 0.000017 | 1 of 6 | 3.5 | 1 of 3 (3rd) monitoring rounds at SW25-01 (upstream) |
| Benzo[k]fluoranthene | 0.00007 | <0.00002 | 0.000017 | 1 of 6 | 4.1 | |
| Iron | 1.7 | 0.35 | 1 | 1 of 6 | 1.7 | 1 of 3 (1st) monitoring rounds at SW25-01 (upstream) |
| Copper | 0.0033 | <0.0021 | 0.001 | 5 of 6 | 3.3 | 2 of 3 (2nd & 3rd) monitoring rounds at SW25-01 (upstream) and all monitoring rounds at SW25-02 (downstream) |

*HQ = Hazard Quotient of maximum concentration*

## 7.7 Soil Leachate and Groundwater Risk Evaluation

### 7.7.1 Area A

Soil leachate exceedances of the EQS were recorded within within Area A. Ammoniacal nitrogen as N, total chromium, lead, nickel, iron and copper had a HQ of less than 5, whilst fluoranthene had a HQ of 14 and was recorded above the EQS in two of the three samples. Fluoranthene was below the detection limit within all groundwater samples suggesting it is not mobilising to groundwater. Groundwater exceedances of the EQS (copper, nickel and zinc) had a HQ of less than 4. Only copper and nickel exceedances were observed within both leachate and groundwater, and of those nickel was only encountered within one of 15 samples. Elevated copper was encountered within all groundwater monitoring rounds, within two of three leachate samples, and within the majority of both upstream and downstream surface water samples.

Comparison of leachate and groundwater samples with DWS in Area A was not considered to be appropriate. This is due to the underlying unproductive strata and lack of groundwater abstraction wells within the direction of groundwater flow.

No NAPL or heavily hydrocarbon-contaminated materials were encountered within Area A.

No major source of contamination has been identified within the Made Ground; Clinker was encountered, however the thickness of Made Ground is generally less than 1m. Given the underlying unproductive strata, in combination with the concentrations encountered in both leachate and groundwater, and the distance to the Battling Brook, soils within Area A are not considered to be presenting an unacceptable risk to the nearby surface water receptor.

### 7.7.2 Area B

Analysis identified the following exceedances:

- High pH was encountered within water samples collected from Gasholders 2 and 3, which is reflected within soil leachate samples from these locations. Soil leachate analysis also identified high pH within Made Ground samples collected from outside of structures across the site and within the former catch boxes, however this was not reflected in nearby groundwater samples.
- Total cyanide above the DWS was encountered within various leachate samples across the site, which was also reflected within groundwater samples. However, two of three monitoring rounds within an upgradient well (MW25-05A) also resulted in elevated total cyanide concentrations. Free cyanide was encountered consistently above the EQS within water samples from Gasholder 2 and potential purifiers, and above the DWS within one monitoring round within the potential purifiers/tar wells. Whilst free cyanide within leachate samples from Gasholder 2 were below the detection limit, elevated levels (above both EQS and DWS) were encountered within the potential purifier catch boxes. Whilst the exceedances of free cyanide with regards to DWS were within the same order of magnitude, EQS exceedances where higher suggesting there is a potential risk to surface water from cyanide contained within water in Gasholder 2 and purifiers.
- Sulphate and chloride were encountered above the EQS and DWS within groundwater across the area. Elevated chloride was not encountered within leachate. Additionally, two of three monitoring rounds within an upgradient well (MW25-05A) resulted in elevated chloride concentrations.
- Copper was encountered above the EQS within both leachate and samples across the area. Concentrations were below the DWS. Elevated copper was encountered within all three monitoring rounds of an upgradient well (MW25-05A), suggesting concentrations may be widespread within the area.
- Nickel was encountered above the EQS within multiple leachate locations across the site, however it appeared to be most common in the area of the refuse tip (HQ of 24), where it also exceeded the DWS (HQ of 4.8). Nickel was encountered above the EQS within groundwater across the area, including the former refuse tip, however it only exceeded the DWS within Gasholder 2 and the purifier catch boxes. Elevated nickel was encountered within all three monitoring rounds of an upgradient well (MW25-05A), suggesting concentrations may be widespread within the area.
- Elevated ammoniacal nitrogen / ammonium as NH4 was encountered across the site, above both EQS and DWS within groundwater but was significantly higher within the centre of the site (MW25-16A, MW25-27 and MW25-32), within the former process areas. This was also

reflected within soil leachate samples. The highest concentration of ammonium in soils was within MW25-16A and within soil leachate was TP25-20.

- Cresol and phenol concentrations were sporadically above the EQS across groundwater monitoring rounds, but were significantly higher within MW25-27. Leachate sampling from MW25-27 encountered elevated creosol within a deeper sample, however phenol was below the detection limit. Phenol was only encountered above the EQS within a leachate sample from MW25-22 (gasholder 3); the second of the two groundwater rounds reflected this exceedance.
- PAHs were encountered across the site within groundwater (exceeding both EQS and DWS), including in all former gasholders, but were highest along the western boundary (specifically nearby the former scrubbers) and in Gasholder A. Leachate samples showed elevated PAHs within Gasholder 2 (above EQS and DWS) and spread across former process features (above EQS only). It should be noted that two of three monitoring rounds within an upgradient well (MW25-05A) resulted in elevated fluoranthene concentrations.
- Iron was encountered sporadically across the site within groundwater (HQ of 4.4); iron was highest within Gasholder B. This was reflected within leachate samples across the site. Iron consistently exceeded the DWS within leachate and groundwater samples.
- Arsenic and mercury were encountered in water samples from Gasholder 2 and 3 (exceeding both EQS and DWS), however arsenic was within the same order of magnitude. Arsenic was also encountered within groundwater in the vicinity of the former scrubbers. This was not reflected in leachate samples, with elevated mercury only being encountered within one sample taken from the former reservoir (above EQS and DWS), where groundwater levels were below the detection limit. Arsenic was found to be within the same order of magnitude as the EQS and DWS within leachate samples; highest nearby the former exhauster. Analysis suggests that these contaminants are not mobilizing to groundwater in significant quantities to be a risk to the nearby surface water or abstractions.
- Chromium, cadmium and lead were encountered within the same order of magnitude as the EQS within less than five locations in groundwater. Within leachate samples, hexavalent chromium exceeded the EQS in one sample and total chromium exceeded within five. Cadmium exceedances were recorded in the area of the refuse tip and lead was generally encountered above the EQS across the site. Lead concentrations exceeded the DWS within two leachate samples, but this was not reflected within groundwater. Analysis suggests that these contaminants are not mobilizing to groundwater in significant quantities to be a risk to the nearby surface water.
- Leachable concentrations of zinc were encountered above the EQS within various locations across the site. Zinc was encountered within groundwater consistently along the western boundary, however it was within the same order of magnitude as the EQS (HQ of 4.1). Analysis suggests that these contaminants are not mobilizing to groundwater in significant quantities to be a risk to the nearby surface water.
- BTEX were encountered above the EQS and DWS within Gasholders 2, A and B and within the process areas within groundwater. This was also reflected within leachate samples.

- Styrene was encountered above the EQS and DWS within Gasholders 2 and A within groundwater; it was below the detection limit on the western and southern boundary and within Gasholders 1 and 3.
- Aromatic TPHs were encountered above the DWS within various leachate and groundwater samples across the site within gasholders and former features. Aliphatic C10-12 was also encountered above the DWS within groundwater in Gasholder 1 and A, and the location of the former retort house, however this was not reflected within leachate samples.

Investigations onsite suggest that the integrity of the gasholder tanks and former below ground features may have been compromised when placing the foundations of the former buildings onsite. Therefore, any contamination arising from these former features may not be fully contained. At present, the hardstanding onsite may be reducing water ingress, however the provision of proposed soft standing may allow for future overtopping or disruption to the groundwater regime.

Hydrocarbon contamination has been identified within Made Ground associated with various former features within the process area and within former Gasholders 1, 2 and A; hydrocarbon contamination within Gasholder 3 appears to be lesser in comparison. Hydrocarbon contamination has not been significantly encountered within the Made Ground in Gasholder B.

Additionally, hydrocarbon contamination has been identified within the Wolston Sand and Gravel extending along the western boundary of the site. Free product (DNAPL) has been observed during monitoring within the Wolston Sand and Gravels at MW25-23B. It should be noted that a significant proportion (78.3%) of the total mass recovered by the hydraulic containment unit situated along the south-western boundary of the site is attributable to DNAPL, with mass still being recovered. Given the groundwater flow direction (southwest), hydrocarbon contamination may be arising from the former Gasholders 1 and 2 and migrating via groundwater in the Wolston Sand and Graves towards MW25-23B. Hydrocarbon contamination identified within Gasholder A and former process features (purifiers, scrubbers etc) is likely contributing to the NAPL identified within groundwater.

Elevated concentrations of contaminants have been identified within leachate and groundwater samples primarily within former features. Further modelling is required to assess the possibility of contamination arising onsite reaching the Sketchley Brook and identified abstraction points.

### 7.7.3 Area C

Concentrations of copper, lead and iron were encountered above EQS values within soil leachate samples from Area C. Of these, only copper was encountered within groundwater (within all samples analysed), with a HQ of less than 5. Nickel was encountered within the first of three monitoring rounds and only marginally exceeded the EQS (HQ of 1.2).

Ammoniacal nitrogen as $NH_4^+$ / ammonium as NH4 and lead were encountered marginally exceeding the DWS (HQ of 1.1 and 1.5, respectively), alongside iron, within soil leachate samples. However, no contaminants were measured in excess of the combined DWS within groundwater samples taken from Area C suggesting no significant mobilization to groundwater is occurring.

No NAPL or heavily hydrocarbon-contaminated materials were encountered within Area C.

No major source of contamination has been identified within the Made Ground, and thicknesses were generally less than 2m. Gasholder 4 was identified as above ground with the basal slab being encountered during the investigation. Given the concentrations of contaminants encountered in both leachate and groundwater, in combination with the cohesive Oadby Till below, and the distance to the Sketchley and Battling Brook's, soils within Area C are not considered to be presenting an unacceptable risk to the nearby surface water receptors.

# 8. Updated Conceptual Site Model

Following the completion of the GQRA as presented above, the CSM has been reviewed and refined. The risk rating associated with each linkage below has generally been based on guidance given in the CIRIA document 'C552 Contaminated land risk assessment: A guide to good practice' (CIRIA, 2001). Guidance applied to derive the risk classification is included within Appendix C.

A schematic conceptual site model is provided as Figure 17.

## 8.1 Contaminant Sources

The Desk Study (Worley Consulting, 2024) identified various following potential contaminant sources. These were investigated as part of the intrusive works in order to assess the hazard posed to sensitive receptors. An updated discussion of potential sources of contamination is presented within Appendix E.

The primary sources are located in Area B; the former process area. The main sources in this area are the former gas holder bases/tanks and surrounding soils. Impacted soils and tar related contamination are present in these areas. Hotspots of contamination are also associated with other former structures, including the condensers, scrubbers, tanks, purifiers, etc.

It should be noted that the investigation suggests that the integrity of the gasholder tanks and former below ground features may have been compromised when placing the foundations of the former building blocks onsite, resulting in impact to surrounding soils.

Made Ground across the broader site contains elevated concentrations of hydrocarbons, metals and other inorganic contaminants. Again, concentrations are highest in Area B, but hotpots and broader areas of impact are also noted in Made Ground Areas A and C.

Groundwater across Area B is a secondary source of hydrocarbons, with DNAPL recorded in at least one of the wells installed in 2025 and free phase and high dissolved phase concentrations being recovered from the hydraulic containment system. Dissolved phase concentrations recorded in water samples from wells installed in Area B are indicative of free phase being present in the surrounding soils. The ongoing recovery of NAPL from the containment system indicates the continued presence of a upgradient source of mobile free phase contamination.

## 8.2 Sensitive Receptors and Potential Pathways

This assessment considers future use, assuming the site will be redeveloped through the planning process for residential and public open spaces end uses.

Potential human health receptors identified in the initial conceptual site model were:

- Future site users (residential with private gardens, allowing for ingestion of vegetables, and public open space with attenuation ponds and landscaped areas);
- Off-site residential properties surrounding the site;

- Off-site commercial workers, primarily to the southeast; and
- Off-site public open space park users, primarily Clarendon Park in the northeast and Granville Road Park in the south.

The potential controlled waters receptors were:

- **Groundwater** - principally the Secondary A Aquifer associated with the Wolston Sand & Gravel Member, Secondary Undifferentiated Aquifer associated with the Oadby Till Member and Thrussington Till, and the Secondary B Aquifer associated with Mercia Mudstone Formation.
- **Groundwater abstraction -** An abstraction was identified approximately 860 m south used for general farming and domestic use. Celtic (2003) suggest this abstraction is 15 m bgl situated within the Wolston Sand and Gravels, abstracting 900 $m^3$pa.
- **Surface water** - Sketchley Brook is located approximately 700 m south of site and Battling Brook lies approximately 100 m north, flowing in a southerly direction.

Given the complex geological and hydrogeological model alongside significant level changes across the site and surrounding area, the following receptors and pathways have been identified following completion of the investigation.

- **Future site users**
    - **Residential houses with private gardens**. Direct contact through ingestion of soil, water, dust, home grown vegetables and soil attached to vegetables, dermal contact with dust and soil, and inhalation of windblown dusts are considered viable pathways, alongside vapour and gas inhalation and diffusion through drinking water pipes and services.
    - **Public open spaces**. Direct contact through ingestion of soil, water and dust, dermal contact with dust and soil, and inhalation of windblown dusts are considered viable pathways. Vapour and gas is likely to vent into the open-air atmosphere and dilute and disperse.
- **Off-site residential properties.** Direct contact through ingestion, dermal contact and inhalation of windblown soil and dust are considered viable pathways. Lateral vapour and gas migration pathways through granular soils followed by ingress into residential properties to the west is likely to be limited by changes in ground level between the two sites and the presence of the retaining wall. This pathway will also be broken where properties have vapour/gas barrier membranes installed.

  It is understood that some remediation of the land to the west was completed prior to residential development. However, groundwater from the Cadent site flows off-site and beneath the residential development. Given the ground level changes, groundwater beneath the development will be shallower than elevations observed onsite. A hydraulic containment system is currently operating and reduces the flow of NAPL and dissolved phase off-site. It is also understood that residential properties down hydraulic gradient of Area B were fitted with vapour barriers. As such, this potential risk is currently interpreted to be low.

- **Off-site commercial workers.** Direct contact through ingestion, dermal contact and inhalation of windblown soil and dust are considered viable pathways. Vapour and gas migration through granular soils followed by build-up within commercial properties is also considered viable; however, it is noted that the large internal areas will reduce significant concentration build up.
- **Off-site public open space (park) users.** Clarendon Park is present in the northeast and Granville Road Park in the south. Direct contact through ingestion, dermal contact and inhalation of windblown soil and dust are considered viable pathways. Given the potential for venting and dilution, vapour and gas migration and inhalation are not considered to be significant.
- **Battling Brook.** The Battling Brook is considered to be a potential receptor for groundwater within Area A and the northern section of Area B. However, it is noted that drainage systems are likely to intercept groundwater to some extent, and that the flow regime may differ within Area A and Area B due to level changes across the site and outcropping of the Wolston Sand and Gravels.
- **Sketchley Brook.** Although uncertain due to the currently active pumping system and local geology, groundwater flow in the south of the site may be towards the direction of the Sketchley Brook within the Wolston Sand and Gravels. However, the Wolston Sand and Gravels are not laterally continuous (the BGS mapping indicates that the disappear circa 400 m southwest of the site) and groundwater in the sands is unlikely to flow directly into the Brook; however, there is the potential for entry via drainage and streams that drain the unit.
- **Aquifer.** The predominant aquifer of concern is contained within the coarse-grained Wolston Sand and Gravels; designated a Secondary A Aquifer, there is a resource potential (abstraction for drinking water purposes and supplying surface waters). Whilst the overlying Boulder Clay may provide some protection to contaminants within the Made Ground, this is noted to contain sandy bands and hydrocarbon impact has been noted. Towards the south, the Wolson Sand and Gravel formation appears to directly underly the Made Ground, forming a direct pathway for leaching of contaminants.
- Within Area C, Oadby Till was encountered below the Made Ground in the east of the area and is classified a Secondary Undifferentiated Aquifer, however due to its fine-grained nature no groundwater flow is expected to occur and the till will likely act as a confining layer above the underlying sands. Groundwater was encountered within the underlying Wolston Sand and Gravels.
- **Abstractions.** The Wolston Clay Member is designated as unproductive strata, and no groundwater or surface water abstractions are recorded to the north, therefore human health via drinking water is not considered to be viable receptor within Area A. The site is not located within a Source Protection Zone however there is one groundwater abstraction within 1 km of the site, located 860 m south for general farming and domestic use. Celtic (2003) suggest this abstraction is 15 m bgl situated within the Wolston Sand and Gravels, abstracting 900 m3pa. The location of abstraction provided by Landmark (2024) correlates with a DPD depot, with BGS mapping suggesting Wolston Sand and Gravels are not present at this location. Despite this, permeable superficial deposits can sometimes be used for

local groundwater abstraction, hence being classified as a Secondary A Aquifer, so should be treated as having the potential for use as a drinking water abstraction resource. Therefore, human health via drinking water is considered to be viable receptor within Area A and C.

## 8.3 Summary of Contaminant Linkages

Overall, multiple sources of contamination have been identified at the site associated with the former use as a gasworks, with the former process area and below ground gasholder bases/tanks in Area B identified as the primary sources. The refined CSM is presented within Appendix F. A revised CSM schematic is provided as Figure 17. Key observations are summarised below.

### 8.3.1 Area A

Potentially unacceptable risks to human health in relation to direct contact with metals (arsenic and lead) and asbestos, and possible vapour inhalation risks from benzene have been identified associated with the Made Ground within Area A. The source of benzene observed in vapour samples from VW25-04 is currently unclear. Although asbestos was not encountered in the 2025 samples, the number collected was limited and, as such, it is possible that asbestos is present in the made ground at some locations.

A characteristic situation of CS2 is estimated due to carbon dioxide levels greater than 5 % (maximum 6 %), however the overall risk from ground gas to future site users and off-site site users within Area A is considered to be generally low.

Given the underlying unproductive strata, in combination with the concentrations encountered in both leachate and groundwater, and the distance to the Battling Brook, soils within Area A are not considered to be presenting an unacceptable risk to controlled waters (nearby surface water receptor of the Battling Brook or underlying groundwater aquifer).

### 8.3.2 Area B

Based on the concentrations of contaminants identified within soils across the site, there are considered to be potentially unacceptable risks to proposed residential end users from non-volatile contaminants (including asbestos) within soils in Area B. The risk is associated with impacted Made Ground near surface are physical contact pathways such as direct contact, ingestion and dust inhalation. A risk (via wind blown dust, etc. to off-site users neighbouring the site has been identified, however this is noted to be lower in comparison.

There is considered to be a potentially unacceptable risk associated with volatiles within both soil and groundwater (and NAPL) to future residential users of the site within Area B. Soil exceedances were encountered across the area, however groundwater exceedances were predominantly in the southern and southeastern site area. The risk to off-site residents from offsite groundwater vapour inhalation is currently assumed to be managed through operation of the containment system and the presence of vapour barriers in properties.

Ground gas monitoring within the former refuse tip did not show elevated ground gas concentrations, and intrusive positions within the former feature did not record significant quantities of biodegradable material. Dedicated monitoring wells within Made Ground both inside and outside former features have not resulted in elevated concentrations of ground gas. A characteristic situation of CS1 can be adopted; overall, the risk from ground gas from both onsite and offsite users from Area B is considered to be low.

Hydrocarbon contamination has been identified within Made Ground associated with various former features within the process area and within former Gasholders 1, 2 and A; hydrocarbon contamination within Gasholder 3 appears to be lesser in comparison. Hydrocarbon contamination has not been significantly encountered within the Made Ground in Gasholder B.

Investigations onsite suggest that the integrity of the gasholder tanks and former below ground features may have been compromised when placing the foundations of the former buildings onsite. Therefore, any contamination or ground gas arising from these former features us unlikely to be fully contained. At present, the hardstanding onsite may be reducing water ingress, however the provision of proposed soft standing may allow for future overtopping and/or increased infiltration and mobilization of contamination.

Additionally, hydrocarbon contamination has been identified within the Wolston Sand and Gravel extending along the western boundary of the site. Free product (DNAPL) has been observed during monitoring within the Wolston Sand and Gravels at MW25-23B. It should be noted that a significant proportion (78.3%) of the total mass recovered by the hydraulic containment unit situated along the south-western boundary of the site is attributable to DNAPL, with mass still being recovered. Given the groundwater flow direction (west - southwest), hydrocarbon contamination may be arising from the former Gasholders 1 and 2 and migrating via groundwater in the Wolston Sand and Graves towards MW25-23B. Hydrocarbon contamination identified within Gasholder A and former process features (purifiers, scrubbers, etc.) is likely contributing to the NAPL identified within groundwater.

Elevated concentrations of contaminants have been identified within leachate and groundwater samples primarily within former features.

### 8.3.3 Area C

Potentially unacceptable risks to human health in relation to direct contact with Made Ground containing elevated lead concentrations have been identified. Given the concentrations encountered onsite, the risk to off-site human health is not considered to be unacceptable at this time. Asa with area A, although asbestos was not encountered in the 2025 samples, the number collected was limited and, as such, it is possible that asbestos is present in the made ground at some locations.

Based on the data recorded to date, volatile contaminants within soil and groundwater in Area C are not considered to present an unacceptable risk to future users or offsite receptors.

A characteristic situation of CS1 can be adopted; overall, the risk from ground gas within Area C is considered to be low.

No major source of contamination has been identified within the Made Ground, and thicknesses were generally less than 2 m. Gasholder 4 was identified as above ground with the basal slab being encountered during the investigation. Given the concentrations of contaminants encountered in both leachate and groundwater, in combination with the cohesive Oadby Till below, and the distance to the Sketchley and Battling Brook's, soils within Area C are not considered to be presenting an unacceptable risk to the nearby surface water receptors.

# 9. Conclusions and Recommendations

## 9.1 Conclusions

Based on the findings of the 2025 intrusive investigation in combination with previous information, the Generic Quantitative Risk Assessment has highlighted potentially unacceptable risks to human health from shallow soils present across the site. Additionally, potentially unacceptable risks from soil vapours to future residential site users have been recorded within Areas A and B. Within Area B only, a potentially unacceptable risk to controlled waters has been identified.

## 9.2 Recommendations

To address identified potential risks to controlled waters (Secondary A Aquifer and nearby surface waters) from dissolved and free phase contamination within groundwater, completion of a Quantitative Controlled Waters Risk Assessment is recommended. This will provide a detailed risk assessment based on onsite concentrations in combination with hydrogeological and hydrological properties to further refine the conceptual site model and produce potential remediation criteria. The latter will inform what risk mitigation measures are likely to be required for the proposed development.

Potential human health risks to future residential site users and neighbouring properties can largely be mitigated through a combination of source treatment and implementation of development measures to break migration pathways and/or isolate receptors. Possible measures include vapour barriers in new buildings, use of barrier pipe for water mains and soil cover systems.

Given the potential risks, both to controlled waters and human health, it is recommended that a remediation options appraisal and outline remediation strategy is required. This will address areas of contamination identified within this (and previous) reports and provide a framework for possible risk mitigation works to render the site suitable for residential development. The strategy can then be used to the form the basis of future detailed remediation design and assessment of further works required once a detailed development plan has been agreed for the site.

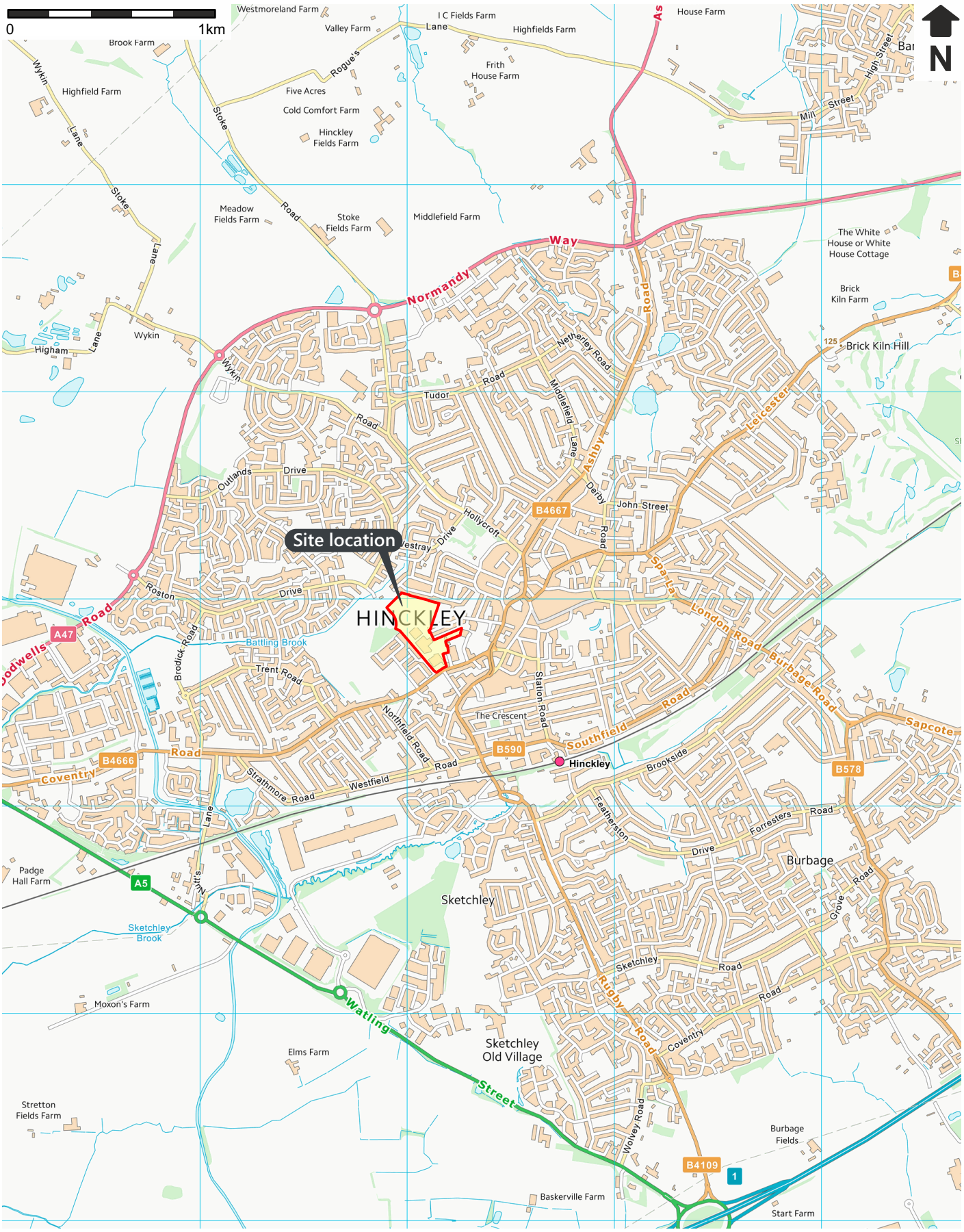
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# FIGURES




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**BRICK KILN STREET, HINCKLEY**

**CADENT GAS LIMITED**

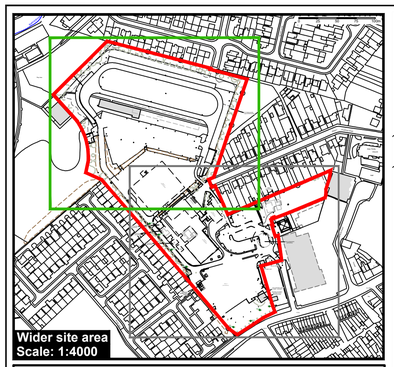
# SITE LOCATION PLAN

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Q:\Hinckley Cadent 004\00401_SI




**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

0 25 50m N

Clarendon Park

Residential properties

11

1

47

51

53

2

Car Park

**Area A**

Disused Block
(Approx. position)

Block 4A
(demolished)

Gymnastics centre

Park

EV charging points
(approximate location)

Sloped embankment

Sloped embankment

Sloped embankment

Sloped embankment

Block 4
(demolished)

Block 3A
(demolished)

44

54

Trinity Vicarage Road

43

51

30

Furniture store
(demolished)

Gas Governor

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Ground cover (approximate)**

- Hard standing
- Vegetation
- Gravel cover
- Bare soil

**Approximate Site Centre:** (442071, 293810)

**References:**

Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
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Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/034-004/Rev A, 23/02/2000

**PROJECT: 00401**
**BRICK KILN STREET, HINCKLEY**

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**SITE LAYOUT AND GROUND COVER**

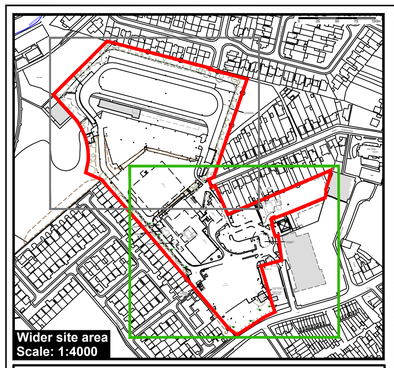
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**FIGURE 2A**

REV -




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0 25 50m N

Area B

Area C

Block 4 (demolished)

Block 3A (demolished)

Block 3 (demolished)

Block 5 (demolished)

Block 2 (demolished)

Block 1 (demolished)

Trinity Vicarage Road

54

43

51

33

31a

Store (demolished)

Furniture store (demolished)

Gas Governor

Car Park

The Meeting Centre

Diesel generator (demolished)

El Sub Sta (demolished)

UPS Room (demolished)

Posts

19

23

11

8

31

11

15

7

1

12

2

Former pond

Brick Kiln Street

Biogenie compound (approx. position)

Tanks

Concrete caisson

Hydraulic containment system

Water filled excavation (approx.)

Former tank (removed)

19 to 37

39 to 49

FSG

Residential properties Former Works (demolished)

Ferry Pickering Close

Radio Mast

Admin garage/store (demolished)

Security lodge (demolished)

HV switch room

Site entrance

Supermarket

Tank (potentially water or diesel - removed)

Electricity sub-station (generator room & HV switch room)

El Sub Sta

Brick Kiln Street

LB

110.6m

109.4m

Coventry Road

84

94

104

2

57

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Ground cover (approximate)**

- Hard standing
- Vegetation
- Gravel cover
- Bare soil

**Approximate Site Centre:** (442071, 293810)

**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
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**SITE LAYOUT AND GROUND COVER**

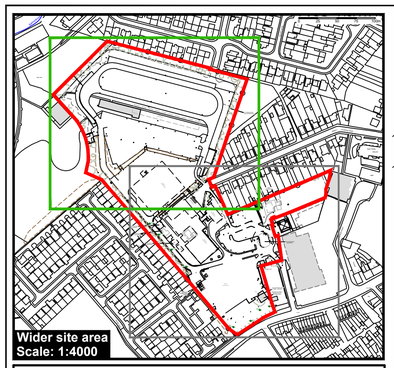
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**FIGURE 2B**

REV -




**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

0 25 50m N

Clarendon Park

Residential properties

Area A

Car Park

Disused Block (Approx. position)

Gymnastics centre

Block 4A (demolished)

Block 4 (demolished)

Block 3A (demolished)

Sloped embankment

Overflow

(AR) Old SW Line

Drainage Channel

Park

EV charging points (approximate location)

Trinity Vicarage Road

Furniture store (demolished)

Gas Governor

(Unclear from services plan if HV cable is present)

NOT LOCATED

CAPPED

VENT

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Services (overlaid from Utility Plans as listed)**

- Gas (LP) / (MP) — Cadent Gas, ref. 35764744, 19/12/2024
- Electricity (U/G, HV) / (U/G, LV) — National Grid Electricity Distribution, ref. 35764744, 19/12/2024
- Water main — Severn Trent, ref. 1655254-2_Clean Water Plan, 09/01/2025
- Foul/combined sewer / Surface drainage — Severn Trent, ref. 1655254-3_Wastewater Plan, 09/01/2025
- Telecoms (U/G) — BT Openreach, ref. SBA111088, 10/01/2025
- Fibre-optic cables — Zayo Group, ref. 35764744, 19/12/2024
- Fibre-optic cables — Virgin Media, ref. 1655254-1_Telecoms Plan, 09/01/2025
- CW / FW cable — OCU Group, Plant Enquiries_Google Earth image, 09/01/2025
- Fibre-optic cables — CityFibre, ref. Existing Plant, ref. CFH_EO_000001, 09/01/2025

**Services (Target Designs Layout, 2006)**

- Foul Drainage
- Foul Pumping main
- Surface Water/Storm Drainage

**Services (Celtic, 2008)**

Celtic, Site Services, ref. D1191/3447/A2, 14/07/2008

- Electricity
- Electricity (earth cables)
- Gas
- Gas (plotted from records)
- Water / Drainage
- Foul / Storm
- Telecoms
- Band of cables (possible fibre-optic)
- Band of fibre-optic cables
- Redundant
- CCTV

**Approximate Site Centre:** (442071, 293810)

**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
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**CADENT GAS LIMITED**

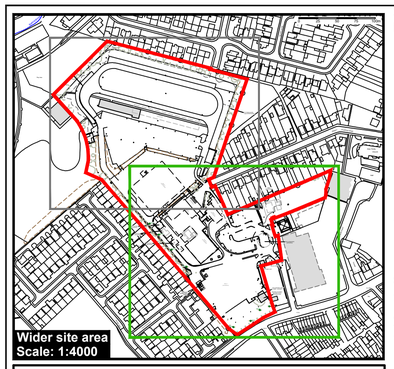
**COMPOSITE SERVICES PLAN**

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**FIGURE 3A** REV -




**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

0 25 50m N

Area C

Area B

Trinity Vicarage Road

Drainage Channel

Block 4 (demolished)

Block 3A (demolished)

Block 3 (demolished)

Block 5 (demolished)

Block 2 (demolished)

Block 1 (demolished)

Former pond

Diesel generator (demolished)

El Sub Sta (demolished)

UPS Room (demolished)

Posts

(Unclear from services plan if HV cable is present)

Brick Kiln Street

Ferry Pickering Close

Residential properties Former Works (demolished)

Former tank (removed)

Hydraulic containment system

Concrete caisson

Assumed route under building

Water filled excavation (approx.)

Car Park

Furniture store (demolished)

Store (demolished)

Gas Governor

Capped

Drainage channel

DRAINAGE CHANNEL

The Meeting Centre

Radio Mast

Admin garage/store (demolished)

Supermarket

Security lodge (demolished)

Site entrance

HV switch room

Tank (potentially water or diesel - removed)

Electricity sub-station (generator room & HV switch room)

El Sub Sta

Coventry Road

109.4m

110.6m

(Potentially decommissioned)

## Legend

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Services (overlaid from Utility Plans as listed)**

- Gas (LP) / (MP) — Cadent Gas, ref. 35764744, 19/12/2024
- Electricity (U/G, HV) / (U/G, LV) — National Grid Electricity Distribution, ref. 35764744, 19/12/2024
- Water main — Severn Trent, ref. 1655054-2_Clean Water Plan, 09/01/2025
- Foul/combined sewer / Surface drainage — Severn Trent, ref. 1655254-3_Wastewater Plan, 09/01/2025
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- Fibre-optic cables — Zayo Group, ref. 35764744, 19/12/2024
- Fibre-optic cables — Virgin Media, ref. 1655254-1, Telecoms Plan, 09/01/2025
- CW / FW cable — OCU Group, Plant Enquiries_Google Earth image, 09/01/2025
- Fibre-optic cables — CityFibre, ref. Existing Plant, ref. CFH_EO_000001, 09/01/2025

**Services (Target Designs Layout, 2006)**

- Foul Drainage
- Foul Pumping main
- Surface Water/Storm Drainage

**Services (Celtic, 2008)**

Celtic, Site Services, ref. E1191/3447/A2, 14/07/2008

- Electricity
- Electricity (earth cables)
- Gas
- Gas (plotted from records)
- Water / Drainage
- Foul / Storm
- Telecoms
- Band of cables (possible fibre-optic)
- Band of fibre-optic cables
- Redundant
- CCTV

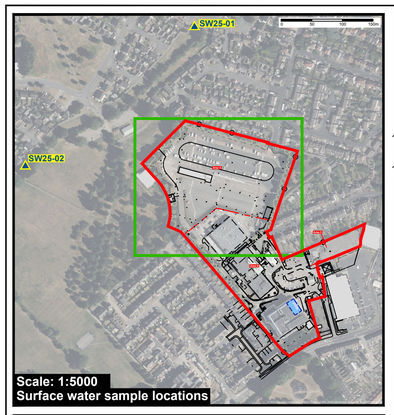
**Approximate Site Centre:** (442071, 293810)

**References:**

Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
Target Designs Drainage Layout, ref. 1521/27-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3522/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D440M/A/2455/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D440M/A/2201- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D440M/99/9050 & 905A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/3/4-004/Rev A, 23/02/2000

| | |
|---|---|
| **PROJECT: 00401**<br>**BRICK KILN STREET, HINCKLEY** | **CADENT GAS LIMITED** |
| **COMPOSITE SERVICES PLAN** | worley consulting |

| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 925 1304 www.worley.com | FIGURE 3B | REV |
|---|---|---|---|---|---|---|---|---|---|
| PM | DRAFT | - | A1 | JUN 2025 | 1:400 | LONDON | | | - |




**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

0 25 50m N

Area A

Clarendon Park
Residential properties
Car Park
Drain
Park
Gymnastics centre
Disused Block (Approx. position)
Block 4A (demolished)
Sloped embankment
Drain from Allotments (1968) (approx.)
Settling Tanks (1968)
Reservoir (1924)
Block 4 (demolished)
Refuse Tip
Block 3A (demolished)
Trinity Vicarage Road
Furniture store (demolished)
Gas Governor
EV charging points (approximate location)

TP43 TP45 TP47 TP49 TP51 TP53 TP55 TP57 TP59 TP61 TP41 TP39 TP37 TP35 TP33 TP31 TP29 TP27 TP25
BH72 BH73 BH31 BH34 BH36 BH38 BH40 BH29
HP25-01 HP25-02 HP25-03 HP25-04
TP25-01 TP25-02 TP25-03 TP25-19 TP25-23
WS01 WS02 WS03 WS04 WS05 WS06 WS07 WS08 WS09 WS10 WS11 WS12 WS13 WS14 WS15
SHT1 SHT2 SHT3 SHT9 SHT10
MW25-01 MW25-02 MW25-03 MW25-04 MW25-04A MW25-05A MW25-05B MW25-06 MW25-08 MW25-36
VW25-02 VW25-03 VW25-04 VW25-21 VW25-22 VW25-23 VW25-24
CP1 CP2 CP3 CP4
CT01

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Historical Structures (approximate locations, unknown unless stated) (Envirocheck, 2025)**
Overlaid from Landmark Envirocheck maps, ref. 363730053_1_1, 18/11/2024

- 1968 and 1972 maps
- 1959
- 1924
- 1889
- Historical structures (approximate locations, 1957) — Overlaid from Gas Archive drawing, ref. WM/EAD/HNK/E/E/8, 08/03/1957
- Historical structures (approximate locations, Unknown date) — Overlaid from Gas Archive drawing, ref. WM/EAD/HNK/E/E/1, Unknown date
- Historical structures (Envirocheck Report - drains)
- Historical structures (Target survey position)

**Historical Structures (Celtic Technologies, approximate positions)**

- Historical structures (1872, 1889, 1960) — Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3522/B2, 23/06/08
- Disused trunk/foul sewer (1968) — Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3447/A3, 23/06/08

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Surface water sample
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- RBH3 — Groundwater re-injection borehole
- OBH6 — Groundwater elevation monitoring borehole
- OBH2 — NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- CBH114 — Cable Percussion Boreholes (2008)
- CBH113A — Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- WS1 — Window Samples (March 1999)
- U2 — Boreholes (April 1999)
- TP23 — Trial Pits (April 1999)

**Previous Site Investigation Locations**

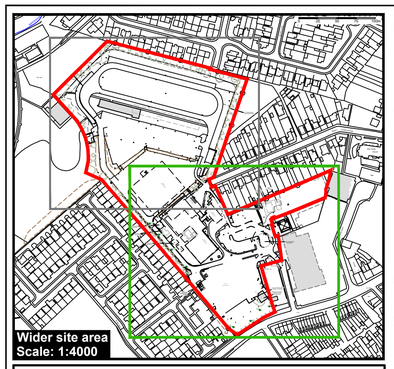
- BH78 — Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- BH39 / CT02 — Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- MW2 — Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)

**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3522/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D440M/A/2495/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D440M/A/2201- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D440M/99/905D & 905A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/034-004/Rev A, 23/02/2000

| | |
|---|---|
| **PROJECT: 00401**<br>**BRICK KILN STREET, HINCKLEY** | **CADENT GAS LIMITED** |
| **SITE INVESTIGATION LOCATIONS (HISTORICAL AND 2025) AND HISTORICAL STRUCTURES** | worley consulting |

| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 925 1304 www.worley.com | FIGURE 4A | REV |
|---|---|---|---|---|---|---|---|---|---|
| PM | DRAFT | - | A1 | JUN 2025 | 1:400 | LONDON | | | - |




**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

0 25 50m N

Area A

Area B

Area C

*Gasholder no.4 position inferred from excavations*

*Unclear from historical plans if these are structures or surface features i.e concrete pads.*

*Gasholder no.1 position inferred from excavations*

*Unclear from historical plans if these are structures or surface features i.e concrete pads.*

*Gasholder no.2 position inferred from excavations*

*Gasholder A Position inferred from excavation*

*Gasholder B Position inferred from excavation*

Settling Tanks (1968)
Reservoir (1924)
Block 4 (demolished)
Refuse Tip
Block 3A (demolished)
Block 3 (demolished)
Block 5 (demolished)
Block 2 (demolished)
Block 1 (demolished)
Gravel pit (1961 - 1963 maps)
El Sub Sta
Diesel generator (demolished)
El Sub Sta (demolished)
Former pond
Former brick structures with timber base
Purifier Cast Iron Boxes
UPS Room (demolished)
Posts
Diesel Tank
Tar well
Scrubbers
Brick Kiln Street
Exhausters Pump House
Retort House
Hydraulic containment system
Concrete caisson
Disused Trunk Foul Sewer (1968) (approx.)
Former tank (removed)
Possible Purifiers
Primary Purifiers
Oxide Shed
Water House
Benzol Washer
Water filled excavation (approx.)
CWG Plant
Possible Retort House (1872)
Retort House (1903 map)
Retort House (1889 Position)
Gasholder no.3
Gasholder no.4
Gasholder no.2 (1889 map)
Gasholder no.1 (1889 - 1924 maps)
Car Park
Store (demolished)
Furniture store (demolished)
Gas Governor
Trinity Vicarage Road
The Meeting Centre
The Lodge
Radio Mast
Admin garage/store (demolished)
Factory
Boiler House
Supermarket
Security lodge (demolished)
Site entrance
HV switch room
Electricity sub-station (generator room & HV switch room)
Tank (potentially water or diesel - removed)
Manager's House
Weighbridge
Office
Residential properties Former Works (demolished)
Ferry Pickering Close
Coventry Road
Brick Kiln Street
110.6m
109.4m

## Legend

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Historical Structures (approximate locations, unknown unless stated) (Envirocheck, 2025)**
Overlaid from Landmark Envirocheck maps, ref. 363730053_1_1, 18/11/2024

- 1968 and 1972 maps
- 1959
- 1924
- 1889
- Historical structures (approximate locations, 1957) — Overlaid from Gas Archive drawing, ref. WM/EAD/HNK/E/8, 08/03/1957
- Historical structures (approximate locations, Unknown date) — Overlaid from Gas Archive drawing, ref. WM/EAD/HNK/E/E/1, Unknown date
- Historical structures (Envirocheck Report - drains)
- Historical structures (Target survey position)

**Historical Structures (Celtic Technologies, approximate positions)**

- Historical structures (1872, 1889, 1960) — Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3522/B2, 23/06/08
- Disused trunk/foul sewer (1968) — Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3447/A3, 23/06/08

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- RBH3 — Groundwater re-injection borehole
- DBH6 — Groundwater elevation monitoring borehole
- DBH2 — NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- CBH114 — Cable Percussion Boreholes (2008)
- CBH113A — Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- WS1 — Window Samples (March 1999)
- U2 — Boreholes (April 1999)
- TP23 — Trial Pits (April 1999)

**Previous Site Investigation Locations**

- SHT8 — Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- BH39 / CT02 — Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- BH2 — Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)

**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
Target Designs Drainage Layout, ref. 152127-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3522/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D440M/A/2465/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D440M/A/2201- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D440M/99/905D & 905A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/03/4-004/Rev A, 23/02/2000

| | |
|---|---|
| **PROJECT: 00401**<br>**BRICK KILN STREET, HINCKLEY** | **CADENT GAS LIMITED** |
| **SITE INVESTIGATION LOCATIONS (HISTORICAL AND 2025) AND HISTORICAL STRUCTURES** | worley consulting |

| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 925 1304 www.worley.com | FIGURE 4B | REV |
|---|---|---|---|---|---|---|---|---|---|
| PM | DRAFT | - | A1 | JUN 2025 | 1:400 | LONDON | | | - |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

0 25 50m N

Area A

Area B

Area C

A A'

B B'

Clarendon Park

Play Area

Gymnastics centre

Residential properties

Browning Drive

Car Park

Drain

Disused Block (Approx. position)

Sloped embankment

Sloped embankment (former)

Diversion Manhole (1960) (approx.)

Diversion Manhole (1960) (backfilled)

Settling Tanks (1960)

Block 4 (demolished)

Block 5 (demolished)

Block 6 (demolished)

Refuse Tip

Former pond

Former tank (removed)

Gasholder A *Position inferred from excavation*

Gasholder B *Position inferred from excavation*

Gasholder no.4 position inferred from excavations

Gasholder no.3

Gasholder no.2 (1889 map)

Gasholder no.2 position inferred from excavations

Gasholder no.1 position inferred from excavations

Unclear from historical plans if these are structures or surface features i.e concrete pads

Tank (potentially water or diesel - removed)

Electricity sub-station (generator room & HV switch room)

HV switch room

Security lodge (demolished)

Site entrance

Admin garage/store (demolished)

Radio Mast

Factory

Supermarket

Car Park

The Lodge

Garage

Store (demolished)

Furniture store (demolished)

Gas Governor

Diesel generator (demolished)

El Sub Sta (demolished)

UPS Room (demolished)

Diesel Tank

Tar well

Scrubbers

Brick Kiln Street

Exhausters Pump House

Hydraulic containment system

Concrete caisson

Possible Purifiers

CWG Plant

Retort House

Manager's House

Possible Retort House (1872)

Office

Weighbridge

Retort House (1889 Position)

Boiler House

Engine House

Current Washer

Old Washer

Block 1 (demolished)

Block 2 (demolished)

Block 3 (demolished)

Ferry Pickering Close

Residential properties Former Works (demolished)

EV charging points (approximate location)

Posts

Holy Trinity Church

Hall

The Meeting Centre

TRINITY VICARAGE ROAD

Trinity Vicarage Road

RIETH CLOSE

PORTER CLOSE

SHORT WAY

MARCHANT ROAD

Coventry Road

THE GROVE

111.6m

110.6m

109.4m

PH

LB

## Legend

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures
- A——A' Line of schematic cross-section

**Historical Structures (approximate locations, unknown unless stated) (Envirocheck, 2025)**
Overlaid from Landmark Envirocheck maps, ref. 353730551_1_1, 18/11/2024

- 1968 and 1972 maps
- 1959
- 1924
- 1889
- Historical structures (approximate locations, 1957)
  Overlaid from Gas Archive drawing, ref. WMS/ADH/MD/EXS. 08/05/1957
- Historical structures (approximate locations, Unknown date)
  Overlaid from Gas Archive drawing, ref. WMS/ADH/MD/EXS1. Unknown date
- Historical structures (Envirocheck Report - drains)
- Historical structures (Target survey position)

**Historical Structures (Celtic Technologies, approximate positions)**

- Historical structures (1872, 1889, 1960)
  Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/0620/B2, 23/06/08
- Disused trunk/foul sewer (1968)
  Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/0447/A3, 23/06/08

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)

**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 8272/51, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/0522/B2, 23/06/08
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/0447/A3
Celtic Technologies Ltd, Drawing No. D4439A/0257/1 - Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D4439/95/95DD & 95DA - Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/024-00A/Rev A, 23/02/2000

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| | |
|---|---|
| **PROJECT: 00401**<br>**BRICK KILN STREET, HINCKLEY** | **CADENT GAS LIMITED** |
| **SITE INVESTIGATION LOCATIONS, HISTORICAL STRUCTURES AND GEOLOGICAL CROSS-SECTION LOCATIONS** | worley consulting |

| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE |
|---|---|---|---|---|---|---|
| RM | DRAFT | - | A0 | JUN 2025 | 1:500 | LONDON |

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**FIGURE 4C** REV -

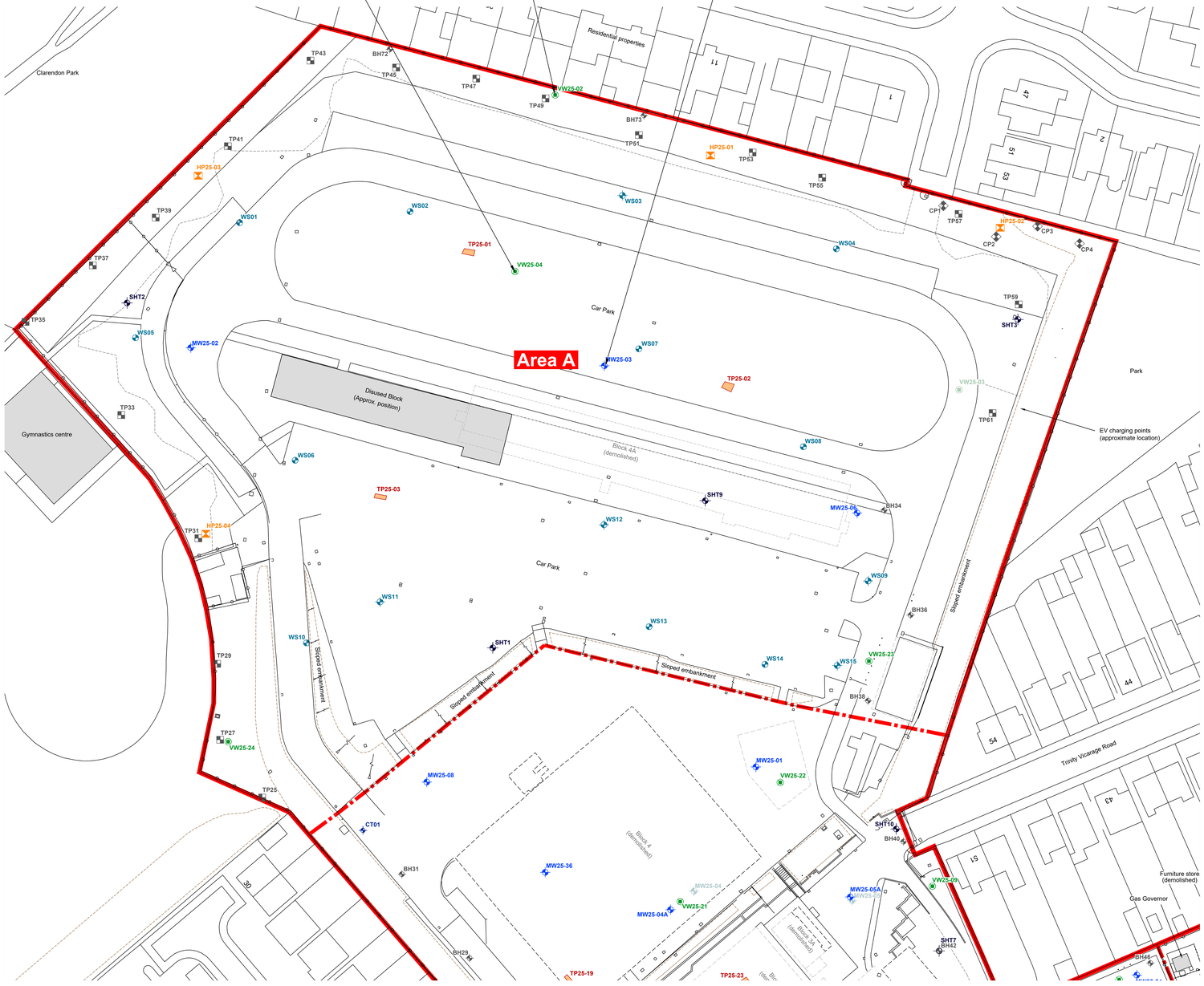
**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

N

| VW25-02 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.20 | Arsenic | mg.kg$^{-1}$ | 47 |
| 0.60 | Arsenic | mg.kg$^{-1}$ | 41 |
| | Trichloroethylene | mg.kg$^{-1}$ | <0.01 |

| VW25-04 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Lead | mg.kg$^{-1}$ | 210 |
| | Trichloroethylene | mg.kg$^{-1}$ | <0.01 |

| MW25-03 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Lead | mg.kg$^{-1}$ | 210 |




**Exceedance criteria:**

| Contaminant | Unit | Residential (with veg uptake C4SL) |
|---|---|---|
| Arsenic | mg.kg$^{-1}$ | 37 |
| Lead | mg.kg$^{-1}$ | 200.89 |
| Trichloromethane (Chloroform) | mg.kg$^{-1}$ | 0.91 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)


**References:**
Bellamy Hughes Surveys, Site Investigation Locations, ref: 627301, 10/03/2025
Target Designs Drainage Layout, ref. 152127-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D119135\22\82, 23/06/08
Celtic Technologies Ltd, Drawing No. D440MA\3495\A3- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D440MA\2001- Historical Summary, April 2005
Celtic Technologies Ltd, Drawing No. D440MA\3504\A3-Exploratory Hole/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141034-004/Rev A, 23/02/2000


| PROJECT: 00401<br>BRICK KILN STREET, HINCKLEY | | | | | | | CADENT GAS LIMITED |
|---|---|---|---|---|---|---|---|
| SOIL EXCEEDANCES<br>(RESIDENTIAL 0.0 - 0.8 M BGL) | | | | | | | worley consulting |
| DRAWN BY<br>RM | STATUS<br>DRAFT | APPROVER<br>- | PAPER SIZE<br>A0 | DATE<br>JUN 2025 | SCALE<br>1:400 | OFFICE<br>LONDON | T +44 (0)117 925 1304<br>www.worley.com | FIGURE 5A | REV<br>- |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

N

| VW25-21 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.75 | Arsenic | mg.kg$^{-1}$ | 68 |

| MW25-01 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.45 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 4 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.32 |

| VW25-09 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.70 | Easily liberatable cyanide | mg.kg$^{-1}$ | 8.2 |
| | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 18 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 15 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 1.6 |

| MW25-11 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.20 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 8.7 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 8.2 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.75 |

| MW25-08 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.50 | Easily liberatable cyanide | mg.kg$^{-1}$ | 1.5 |
| | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 4.4 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.39 |

| MW25-05A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.02 | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.31 |
| | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 15 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 15 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 1.5 |

| MW25-12 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Easily liberatable cyanide | mg.kg$^{-1}$ | 3.5 |
| | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 2.8 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.34 |

| VW25-08 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 9.9 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 7.7 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 1 |
| | Arsenic | mg.kg$^{-1}$ | 57 |
| | Lead | mg.kg$^{-1}$ | 220 |

| TP25-14 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.60 | Lead | mg.kg$^{-1}$ | 560 |

| MW25-04A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.70 | Naphthalene | mg.kg$^{-1}$ | 17 |

| MW25-28A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.60 | Lead | mg.kg$^{-1}$ | 2100 |

| VW25-06 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.60 | Lead | mg.kg$^{-1}$ | 350 |

| VW25-20A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.20 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 2.7 |
| 0.75 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 22 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 19 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 1.7 |
| | Arsenic | mg.kg$^{-1}$ | 44 |
| | Lead | mg.kg$^{-1}$ | 330 |

| MW25-17 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.80 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 4.6 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.35 |

| VW25-01 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.80 | Easily liberatable cyanide | mg.kg$^{-1}$ | 4.5 |
| | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 5.8 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.44 |
| | Arsenic | mg.kg$^{-1}$ | 59 |
| | Lead | mg.kg$^{-1}$ | 290 |

| TP25-13 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.50 | Naphthalene | mg.kg$^{-1}$ | 18 |
| | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 5 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.38 |

| MW25-09C | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.10 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 8 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 6.8 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.72 |
| | Lead | mg.kg$^{-1}$ | 370 |

| MW25-22 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.50 | Naphthalene | mg.kg$^{-1}$ | 30 |
| | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 2.9 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.32 |

| VW25-25 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.20 | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.31 |

| MW25-15C | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.70 | Naphthalene | mg.kg$^{-1}$ | 28 |
| | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 10 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 10 |
| | Lead | mg.kg$^{-1}$ | 410 |

| MW25-19A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.50 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 7.9 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 6.3 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.69 |

| MW25-14 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.60 | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.3 |
| | Arsenic | mg.kg$^{-1}$ | 47 |

| MW25-13A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.80 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 5.5 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 5 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.65 |

| VW25-19A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.20 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 5.7 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.75 |

| MW25-16A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 4.1 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.6 |

**Exceedance criteria:**

| Contaminant | Unit | Residential (with veg uptake C4SL) |
|---|---|---|
| Easily liberatable cyanide | mg.kg$^{-1}$ | 1.44 |
| Naphthalene | mg.kg$^{-1}$ | 15 |
| Chrysene | mg.kg$^{-1}$ | 15 |
| Benzo[b]fluoranthene | mg.kg$^{-1}$ | 2.6 |
| Benzo[a]pyrene | mg.kg$^{-1}$ | 4.96 |
| Indeno[1,2,3-cd]pyrene | mg.kg$^{-1}$ | 27 |
| Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.24 |
| Arsenic | mg.kg$^{-1}$ | 37 |
| Lead | mg.kg$^{-1}$ | 200.89 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)


**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 627251, 10/03/2025
Target Designs Drainage Layout, ref. 152127-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191352/282, 23/06/08
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191352
Celtic Technologies Ltd, Drawing No. D4456A/02/01- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D4456A/95/00D & 905A- Exploratory Holes/Borehole Locations, March/April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/00A-00A/Rev A, 23/02/2000


| MW25-29 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Arsenic | mg.kg$^{-1}$ | 41 |

| MW25-27 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.50 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 11 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 7.6 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.94 |
| | Arsenic | mg.kg$^{-1}$ | 49 |

| MW25-23B | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.80 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 4.7 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.51 |

| TP25-24 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 4.1 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.45 |

| TP25-25 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 2.9 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.34 |

| MW25-34 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.40 | Easily liberatable cyanide | mg.kg$^{-1}$ | 2.2 |
| 0.30 | Naphthalene | mg.kg$^{-1}$ | 37 |

| VW25-15 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.75 | Chrysene | mg.kg$^{-1}$ | 42 |
| | Benzo[b]fluoranthene | mg.kg$^{-1}$ | 62 |
| | Benzo[a]pyrene | mg.kg$^{-1}$ | 62 |
| | Indeno[1,2,3-cd]pyrene | mg.kg$^{-1}$ | 33 |
| | Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 6.1 |

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|---|---|---|---|---|---|---|---|---|
| SOIL EXCEEDANCES<br>(RESIDENTIAL 0.0 - 0.8 M BGL) | | | | | | | | worley consulting |
| DRAWN BY | STATUS | APPROVED | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 920 1004<br>www.worley.com | FIGURE 5B | REV |
| RM | DRAFT | - | A0 | JUN.2025 | 1:400 | LONDON | | | - |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

N

| MW25-05A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.50 | Naphthalene | mg.kg$^{-1}$ | 27 |
| | Benzene | mg.kg$^{-1}$ | 0.25 |

| TP25-21 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.65 | Easily liberatable cyanide | mg.kg$^{-1}$ | 5 |

| MW25-08 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Easily liberatable cyanide | mg.kg$^{-1}$ | 2.6 |

| MW25-36 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.90 | Easily liberatable cyanide | mg.kg$^{-1}$ | 3 |

| MW25-35 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Naphthalene | mg.kg$^{-1}$ | 20 |

| MW25-09C | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 8.40 | Naphthalene | mg.kg$^{-1}$ | 33 |

| MW25-14 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.95 | Easily liberatable cyanide | mg.kg$^{-1}$ | 11 |
| | Naphthalene | mg.kg$^{-1}$ | 160 |
| | Benzene | mg.kg$^{-1}$ | 0.89 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 27 |

| TP25-20 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Easily liberatable cyanide | mg.kg$^{-1}$ | 1.9 |
| 1.80 | Easily liberatable cyanide | mg.kg$^{-1}$ | 12 |
| | Naphthalene | mg.kg$^{-1}$ | 440 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 23 |

| MW25-16A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.00 | Naphthalene | mg.kg$^{-1}$ | 44 |
| | Benzene | mg.kg$^{-1}$ | 1.8 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 8.8 |
| 3.80 | Naphthalene | mg.kg$^{-1}$ | 430 |
| | Benzene | mg.kg$^{-1}$ | 2.9 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 11 |

| MW25-29 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 8.45 | Benzene | mg.kg$^{-1}$ | 2.9 |

| MW25-27 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 3.30 | Naphthalene | mg.kg$^{-1}$ | 98 |
| | Benzene | mg.kg$^{-1}$ | 0.6 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 11 |
| 7.60 | Naphthalene | mg.kg$^{-1}$ | 380 |
| | Benzene | mg.kg$^{-1}$ | 6.3 |

| TP25-18 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.50 | Naphthalene | mg.kg$^{-1}$ | 33 |

| VW25-18 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Benzene | mg.kg$^{-1}$ | 0.89 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 1.9 |

| TP25-06 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.90 | Naphthalene | mg.kg$^{-1}$ | 21 |
| | Benzene | mg.kg$^{-1}$ | 0.37 |

| MW25-33 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 4.00 | Naphthalene | mg.kg$^{-1}$ | 33 |
| | Benzene | mg.kg$^{-1}$ | 1.9 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 6.4 |
| 6.00 | Easily liberatable cyanide | mg.kg$^{-1}$ | 8.4 |
| | Naphthalene | mg.kg$^{-1}$ | 750 |
| | Benzene | mg.kg$^{-1}$ | 33 |

| MW25-13A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.70 | Easily liberatable cyanide | mg.kg$^{-1}$ | 1.8 |
| | Naphthalene | mg.kg$^{-1}$ | 72 |
| | Benzene | mg.kg$^{-1}$ | 7.2 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 7.4 |

| MW25-30B | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.20 | Naphthalene | mg.kg$^{-1}$ | 38 |
| | Benzene | mg.kg$^{-1}$ | 2.9 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 4.1 |
| 5.40 | Benzene | mg.kg$^{-1}$ | 0.43 |

| MW25-10 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.50 | Naphthalene | mg.kg$^{-1}$ | 71 |
| | Benzene | mg.kg$^{-1}$ | 0.96 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 7.5 |
| 2.70-3.70 | Naphthalene | mg.kg$^{-1}$ | 71 |
| | Benzene | mg.kg$^{-1}$ | 4.9 |

| MW25-34 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 8.10 | Naphthalene | mg.kg$^{-1}$ | 22 |
| | Benzene | mg.kg$^{-1}$ | 0.25 |

| MW25-23B | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 10.10 | Benzene | mg.kg$^{-1}$ | 3.6 |
| 4.70 | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 1.6 |
| 7.50 | Benzene | mg.kg$^{-1}$ | 33 |

| MW25-25 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 5.80 | Naphthalene | mg.kg$^{-1}$ | 2400 |
| | Benzene | mg.kg$^{-1}$ | 46 |
| | Styrene | mg.kg$^{-1}$ | 29 |
| | 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 13 |
| | 2,4-Dimethylphenol | mg.kg$^{-1}$ | 220 |
| 6.50 | Naphthalene | mg.kg$^{-1}$ | 27 |
| | Benzene | mg.kg$^{-1}$ | 0.87 |

| MW25-25-DUP | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 6.50 | Naphthalene | mg.kg$^{-1}$ | 31 |
| | Benzene | mg.kg$^{-1}$ | 0.65 |

| MW25-20 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 5.40 | Naphthalene | mg.kg$^{-1}$ | 650 |
| | Benzene | mg.kg$^{-1}$ | 5.4 |
| | Xylene (o-Xylene) | mg.kg$^{-1}$ | 67 |
| 9.90 | Benzene | mg.kg$^{-1}$ | 3.5 |

| MW25-20-DUP | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 9.90 | Benzene | mg.kg$^{-1}$ | 9.1 |

**Exceedance criteria:**

| Volatile Contaminant | Unit | Residential (with veg uptake C4SL) |
|---|---|---|
| Easily liberatable cyanide | mg.kg$^{-1}$ | 1.44 |
| Naphthalene | mg.kg$^{-1}$ | 15 |
| Benzene | mg.kg$^{-1}$ | 0.203 |
| Xylene (o-Xylene) | mg.kg$^{-1}$ | 60 |
| Styrene | mg.kg$^{-1}$ | 19.448 |
| 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 0.517 |
| 2,4-Dimethylphenol | mg.kg$^{-1}$ | 34.117 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)


**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 6272/S1, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
Wood Environment & Infrastructure Solutions UK Limited, ref. 10191552/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D4406MA2305/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D4406MA2201- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D4406MW8/9/20/23 & 905A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141004-004Rev A, 23/02/2000


| PROJECT: 00401<br>BRICK KILN STREET, HINCKLEY | | | | | | | CADENT GAS LIMITED |
|---|---|---|---|---|---|---|---|
| SOIL EXCEEDANCES (VOLATILES)<br>(RESIDENTIAL > 0.8 M BGL) | | | | | | | worley consulting |
| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 925 1304<br>www.worley.com |
| PM | DRAFT | - | A0 | JUN 2025 | 1:400 | LONDON | FIGURE 6 — REV - |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

N

| MW25-08 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.50 | Chrysotile - Loose Fibres | < 0.001 |

| VW25-20A | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.20 | Amosite | 0.009 |

| MW25-09C | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.10 | Chrysotile | < 0.001 |

| TP25-20 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 1.00 | Amosite, Chrysotile, Crocidolite | 0.012 |

| VW25-19A | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.20 | Chrysotile | < 0.001 |

| MW25-29 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.30 | Amosite | < 0.001 |

| MW25-27 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.50 | Amosite, Chrysotile | 0.018 |

| VW25-09 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.30 | Chrysotile | < 0.001 |

| MW25-11 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.20 | Amosite | < 0.001 |

| MW25-12 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.30 | Chrysotile | < 0.001 |

| VW25-08 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.30 | Amosite, Chrysotile, Crocidolite | 0.007 |

| MW25-24 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.40 | Chrysotile - Loose Fibres | 0.001 |

| MW25-22 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.50 | Amosite, Chrysotile | 0.001 |

| VW25-25 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.20 | Chrysotile | < 0.001 |

| TP25-06 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.40 | Chrysotile | < 0.001 |

| MW25-33 | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 1.10 | Chrysotile, Crocidolite | 0.003 |

| MW25-13A | | |
|---|---|---|
| Depth (m bgl) | Asbestos Type | Quantity (% mass) |
| 0.80 | Amosite, Chrysotile | 0.001 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)


**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 6272/S1, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
Target Designs Site Plan Showing Ad Services, ref. 141034-00A/Rev A, 23/02/2000
Celtic Technologies Ltd, Drawing No. 0419135522/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D440MA/2495/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D440MA/2201- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D440M/9/9/SD3 & 9/SA- Exploratory Holes/Borehole Locations, March-April 1999


| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PROJECT: 00401<br>BRICK KILN STREET, HINCKLEY | | | | | | | CADENT GAS LIMITED |
| ASBESTOS IDENTIFICATION AND QUANTIFICATION | | | | | | | worley consulting |
| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 920 1304<br>www.worley.com |
| PM | DRAFT | - | A0 | JUN 2025 | 1:400 | LONDON | FIGURE 7 — REV - |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

N

| VW25-04 | | | |
|---|---|---|---|
| **Monitoring Round No.** | **Contaminant** | **Unit** | **Concentration** |
| 1 | Benzene | ug.m-3 | 6.3 |
| 2 | Benzene | ug.m-3 | 17 |
| 3 | Benzene | ug.m-3 | 12 |
| 2 | TPH Aliphatic C8-C10 | ug.m-3 | 1100 |
| | 1,2,4-Trimethylbenzene | ug.m-3 | 18 |

| VW25-09 | | | |
|---|---|---|---|
| **Monitoring Round No.** | **Contaminant** | **Unit** | **Concentration** |
| 2 | TPH Aliphatic C8-C10 | ug.m-3 | 1100 |

| VW25-18 | | | |
|---|---|---|---|
| **Monitoring Round No.** | **Contaminant** | **Unit** | **Concentration** |
| 1 | 1,2,4-Trimethylbenzene | ug.m-3 | 44 |
| 2 | 1,2,4-Trimethylbenzene | ug.m-3 | 43 |
| 3 | 1,2,4-Trimethylbenzene | ug.m-3 | 20 |
| 2 | Benzene | ug.m-3 | 11 |
| | Chloromethane | ug.m-3 | < 83.2 |
| | Trichloroethene | ug.m-3 | < 21.6 |
| | Vinyl chloride | ug.m-3 | < 10.4 |
| | Naphthalene | ug.m-3 | <21.6 |
| | TPH Aliphatic C8-C10 | ug.m-3 | 9800 |

| VW25-15 | | | |
|---|---|---|---|
| **Monitoring Round No.** | **Contaminant** | **Unit** | **Concentration** |
| 3 | Trichloroethene | ug.m-3 | 7.3 |

**Exceedance criteria:**

| Volatile Contaminant | Unit | Residential |
|---|---|---|
| 1,2,4-Trimethylbenzene | ug.m$^{-3}$ | 7 |
| Benzene | ug.m$^{-3}$ | 5 |
| Chloromethane | ug.m$^{-3}$ | 18 |
| Trichloroethene | ug.m$^{-3}$ | 5.6 |
| Vinyl chloride | ug.m$^{-3}$ | 1 |
| Naphthalene | ug.m$^{-3}$ | 3 |
| TPH Aliphatic C8-C10 | ug.m$^{-3}$ | 1000 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)


**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
Malcolm Hughes Surveys, Topographical Survey, ref. 62725, 2025
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. 07/181/2022/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D4436/A/2495/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D4436/A/2501- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D4436/99/50/D & 900A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141004-004Rev A, 23/02/2000


| PROJECT: 00401<br>BRICK KILN STREET, HINCKLEY | | | | | | | | CADENT GAS LIMITED | |
|---|---|---|---|---|---|---|---|---|---|
| VAPOUR EXCEEDANCES (RESIDENTIAL) | | | | | | | | worley consulting | |
| DRAWN BY | STATUS | APPROVED | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 925 1304<br>www.worley.com | FIGURE 8A | REV |
| PM | DRAFT | - | A0 | JUN 2025 | 1:500 | LONDON | | | - |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*




| VW25-18 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | 1,2,4-Trimethylbenzene | ug.m$^{-3}$ | 44 |
| 2 | | | 43 |
| 2 | Chloromethane | ug.m$^{-3}$ | < 83.2 |
| | Vinyl chloride | ug.m$^{-3}$ | < 10.4 |
| | Naphthalene | ug.m$^{-3}$ | < 21.6 |
| | TPH Aliphatic C8-C10 | ug.m$^{-3}$ | 9800 |

**Exceedance criteria:**

| Volatile Contaminant | Unit | Commercial |
|---|---|---|
| 1,2,4-Trimethylbenzene | ug.m$^{-3}$ | 21.7 |
| Chloromethane | ug.m$^{-3}$ | 55.8 |
| Vinyl chloride | ug.m$^{-3}$ | 6.1 |
| Naphthalene | ug.m$^{-3}$ | 17.8 |
| TPH Aliphatic C8-C10 | ug.m$^{-3}$ | 3150 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)

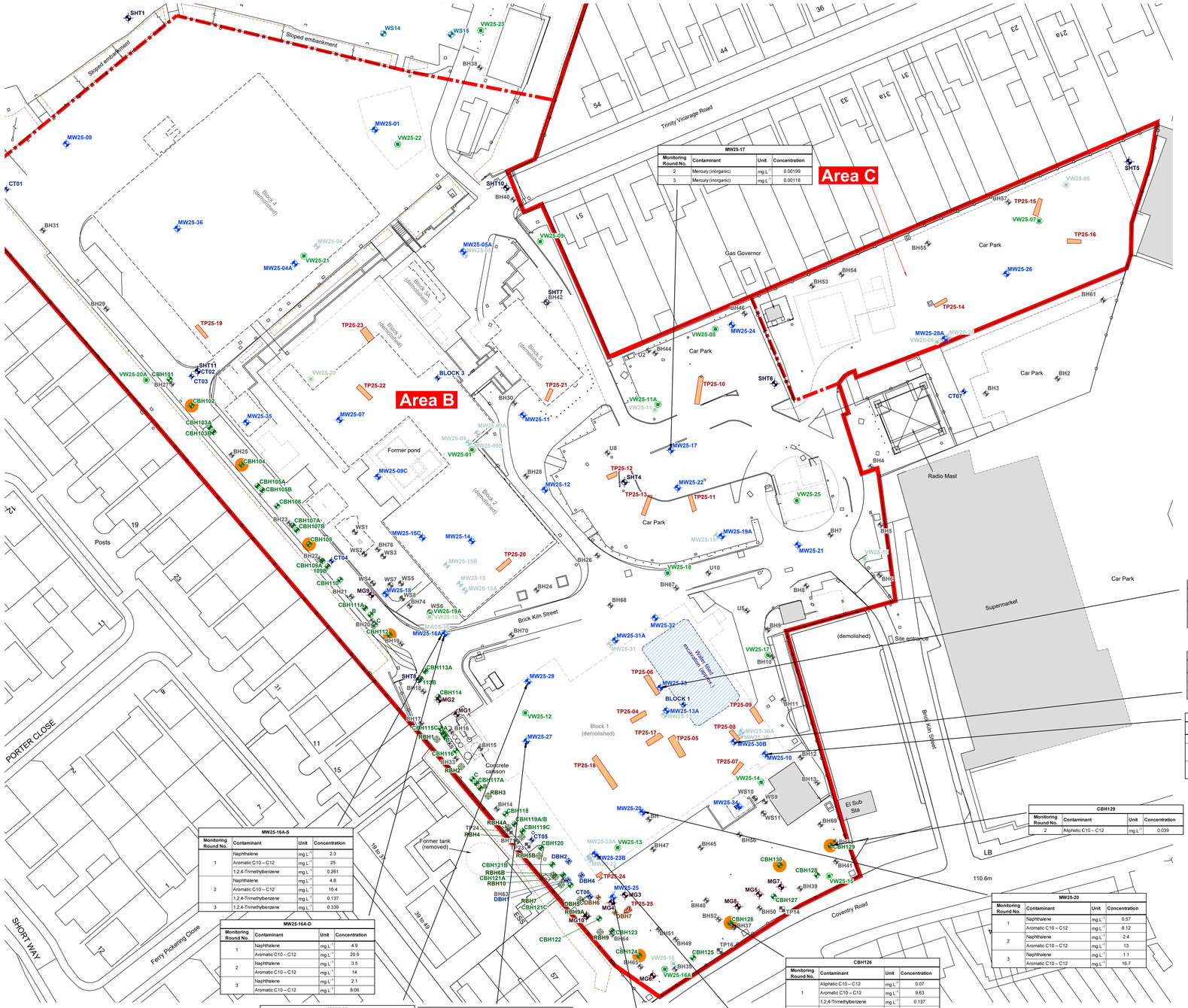
**References:**


Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
Malcolm Hughes Surveys, Topographical Survey, ref. 62725, 2025
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1161/2022/82, 23/06/08
Celtic Technologies Ltd, Drawing No. D4436A/2495/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D4436A/A2/01- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D4404/99/50/D & 900A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141004-004Rev A, 23/02/2000


| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PROJECT: 00401<br>BRICK KILN STREET, HINCKLEY | | | | | | CADENT GAS LIMITED | |
| VAPOUR EXCEEDANCES (COMMERCIAL) | | | | | | worley consulting | |
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| PM | DRAFT | - | A0 | JUN 2025 | 1:500 | LONDON | FIGURE 8B REV - |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

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| MW25-17 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 2 | Mercury (inorganic) | mg.L$^{-1}$ | 0.00199 |
| 3 | Mercury (inorganic) | mg.L$^{-1}$ | 0.00118 |

| MW25-33 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.0601 |
| 2 | Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.51 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.0794 |

| MW25-30B | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Naphthalene | mg.L$^{-1}$ | 0.27 |
| 2 | Naphthalene | mg.L$^{-1}$ | 0.8 |
| 3 | Naphthalene | mg.L$^{-1}$ | 1.3 |

| MW25-10 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Naphthalene | mg.L$^{-1}$ | 1.7 |
| 2 | Naphthalene | mg.L$^{-1}$ | 1.4 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.0473 |
| 3 | Naphthalene | mg.L$^{-1}$ | 1.3 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.17 |

| CBH129 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 2 | Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.039 |

| MW25-20 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Naphthalene | mg.L$^{-1}$ | 0.57 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 8.12 |
| 2 | Naphthalene | mg.L$^{-1}$ | 2.4 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 13 |
| 3 | Naphthalene | mg.L$^{-1}$ | 1.1 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 16.7 |

| MW25-16A-S | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Naphthalene | mg.L$^{-1}$ | 2.3 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 25 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.261 |
| 2 | Naphthalene | mg.L$^{-1}$ | 4.8 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 16.4 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.137 |
| 3 | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.339 |

| MW25-16A-D | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Naphthalene | mg.L$^{-1}$ | 4.9 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 20.9 |
| 2 | Naphthalene | mg.L$^{-1}$ | 3.5 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 14 |
| 3 | Naphthalene | mg.L$^{-1}$ | 2.1 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 8.06 |

| MW25-29 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 3 | Naphthalene | mg.L$^{-1}$ | 0.23 |

| MW25-27 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Naphthalene | mg.L$^{-1}$ | 4.1 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 139 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.177 |
| 2 | Naphthalene | mg.L$^{-1}$ | 2.7 |
| | Aliphatic C10 – C12 | mg.L$^{-1}$ | 2.08 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 110 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.0595 |
| 3 | Naphthalene | mg.L$^{-1}$ | 3.6 |
| | Aliphatic C10 – C12 | mg.L$^{-1}$ | 3.11 |
| | Aromatic C8 – C10 | mg.L$^{-1}$ | 2 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 156 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.2 |

| MW25-25 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 2 | Naphthalene | mg.L$^{-1}$ | 1.2 |

| CBH126 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.07 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 9.63 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.137 |
| 2 | Naphthalene | mg.L$^{-1}$ | 1.3 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 11.5 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.0918 |
| 3 | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.294 |

| MW25-23B | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Naphthalene | mg.L$^{-1}$ | 2.3 |
| | Aromatic C8 – C10 | mg.L$^{-1}$ | 4.5 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 22.2 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.111 |
| 2 | Naphthalene | mg.L$^{-1}$ | 3.6 |
| | Aromatic C8 – C10 | mg.L$^{-1}$ | 2.6 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 28.4 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.121 |
| 3 | Naphthalene | mg.L$^{-1}$ | 6.8 |
| | Aliphatic C10 – C12 | mg.L$^{-1}$ | 1.32 |
| | Aromatic C8 – C10 | mg.L$^{-1}$ | 6.6 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 55.5 |
| | 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.369 |

**Exceedance criteria:**

| Contaminant | Unit | Residential |
|---|---|---|
| Naphthalene | mg.L$^{-1}$ | 0.22 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.0011 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.037 |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 1.9 |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 6.8 |
| 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.024 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

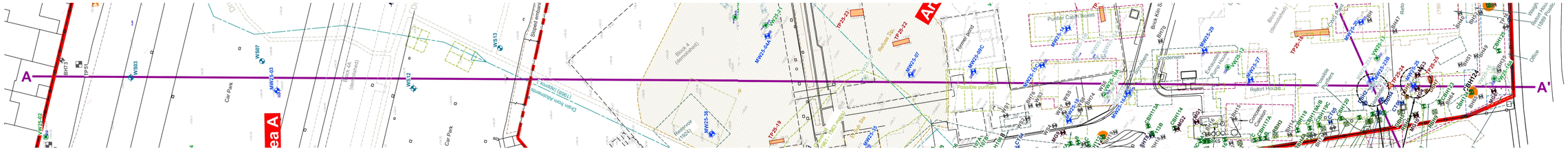
- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

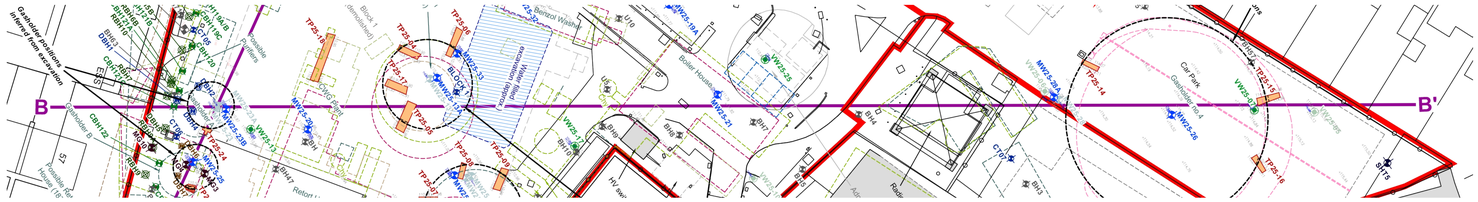
**Approximate Site Centre:** (442071, 293810)

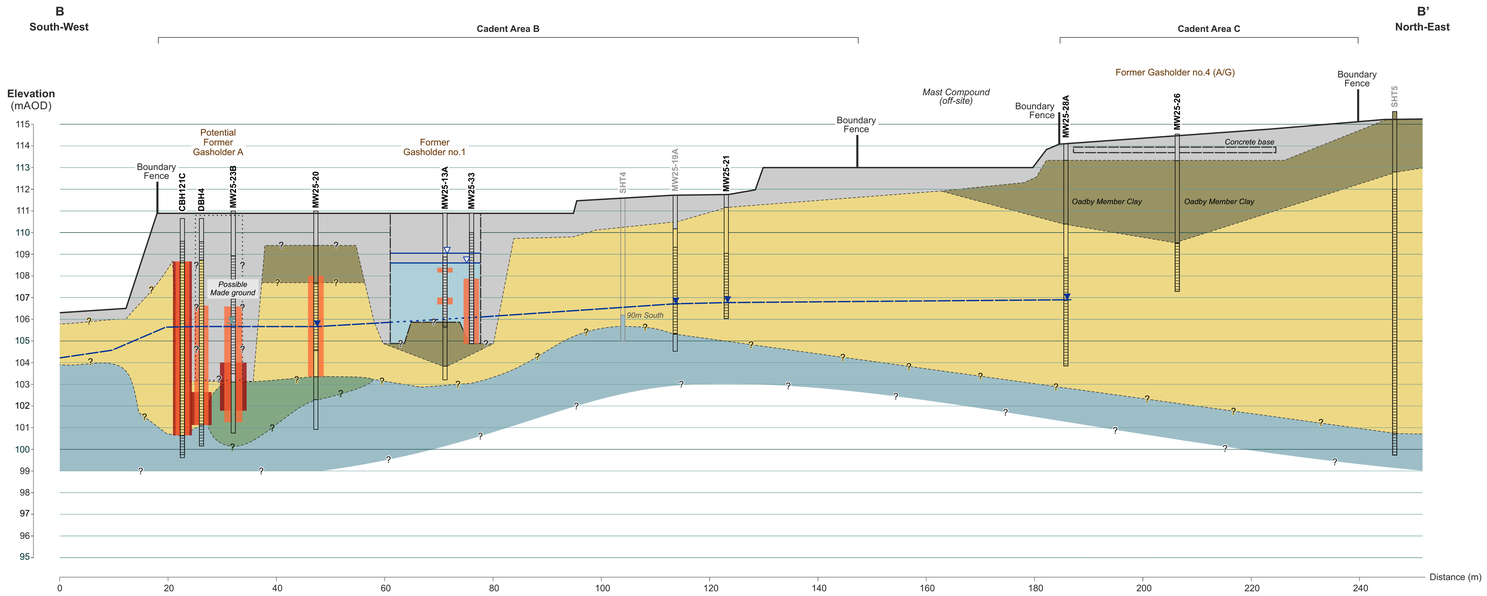

**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 6272/S1, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
Target Designs Site Plan Showing Ground Investigation Locations, ref. 0191/3522/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D4436MA/2495/AO Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D4436MA/2001- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D4436MW/8/0D3 & 9S5A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141034-00ARev A, 23/02/2000


| | |
|---|---|
| **PROJECT: 00401**<br>**BRICK KILN STREET, HINCKLEY** | **CADENT GAS LIMITED** |
| **GROUNDWATER VAPOUR EXCEEDANCES (RESIDENTIAL)** | worley consulting |

| DRAWN BY | STATUS | APPROVED | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 325 1304 www.worley.com | FIGURE 9 | REV |
|---|---|---|---|---|---|---|---|---|---|
| PM | DRAFT | - | A0 | JUN 2025 | 1:400 | LONDON | | | - |



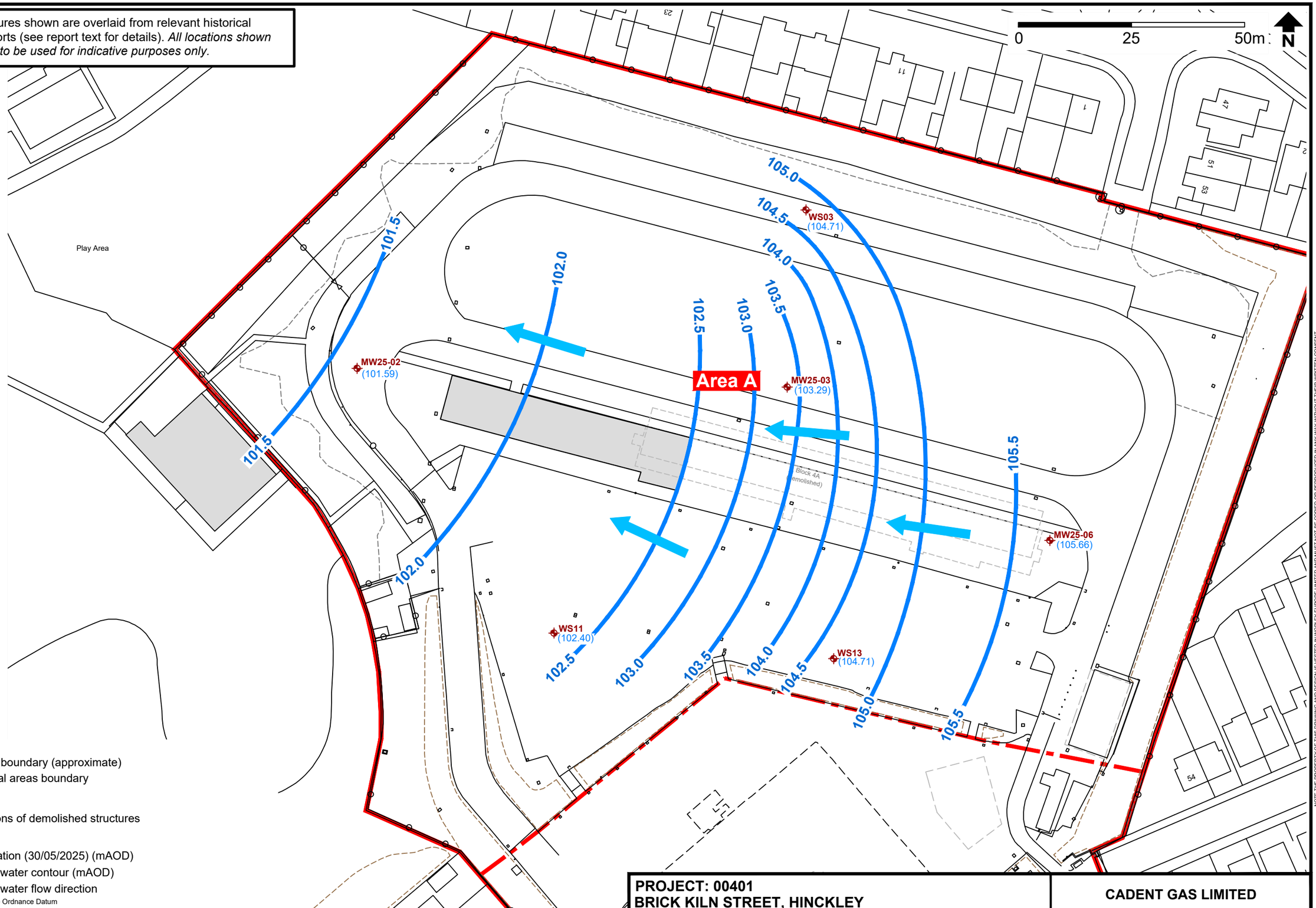

**Legend**

- Made ground
- Hardstanding
- Boulder Clay
- Wolston Clay Member (Sand/Sand & Gravel)
- Wolston Clay Member (Clay)
- Wolston Clay Member (Silt)
- Perched water level
- Inferred groundwater level (June 2025)
- Groundwater level (2024)
- Staining, odours and sheen
- Free product noted in the form of globules or pockets of tar

| | |
|---|---|
| PROJECT: 00401<br>BRICK KILN STREET, HINCKLEY | CADENT GAS LIMITED |
| SCHEMATIC GEOLOGICAL CROSS-SECTIONS A-A' AND B-B' | worley consulting |

| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 925 1304 www.worley.com | FIGURE 10 | REV |
|---|---|---|---|---|---|---|---|---|---|
| PM | DRAFT | - | A0 | JUN 2025 | SHOWN | LONDON | | | - |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*




**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Groundwater Flow**

- (101.43) Groundwater elevation (30/05/2025) (mAOD)
- 101.0 Interpreted groundwater contour (mAOD)
- Interpreted groundwater flow direction

**Note:** mAOD = metres above Ordnance Datum

- *Wells screened in Wolston Clay Member*

**Approximate Site Centre:** (442071, 293810)

**References:**


Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3522/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D440M/A/2495/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D440M/A/2201- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D440M/99/905D & 905A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/034-004/Rev A, 23/02/2000


**PROJECT: 00401**
**BRICK KILN STREET, HINCKLEY**

**CADENT GAS LIMITED**

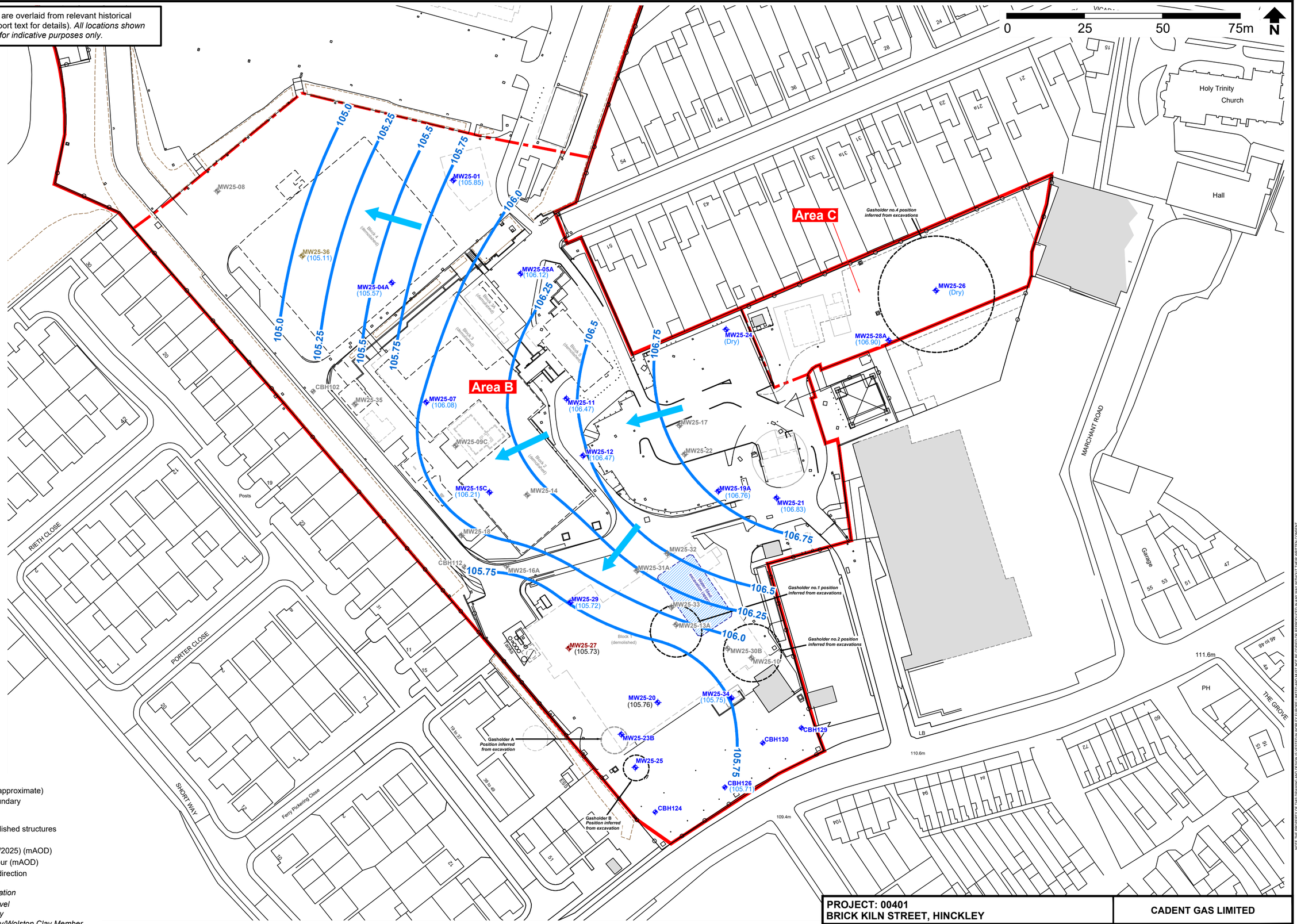
# INTERPRETED GROUNDWATER FLOW (AREA A)

| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 925 1304 www.worley.com | FIGURE 11A | REV |
|---|---|---|---|---|---|---|---|---|---|
| PM | DRAFT | - | A3 | JUN 2025 | 1:800 | LONDON | | | - |


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Q:\Hinckley Cadent 00401\00401_SI

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*




**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Groundwater Flow**

- (101.43) Groundwater elevation (30/05/2025) (mAOD)
- 101.0 Interpreted groundwater contour (mAOD)
- Interpreted groundwater flow direction

**Note:** mAOD = metres above Ordnance Datum

- (6.02) *Elevation not used in interpretation*
- *Wells screened in Sand & Gravel*
- *Wells screened in Boulder Clay*
- *Wells screened in Boulder Clay/Wolston Clay Member*

**Approximate Site Centre:** (442071, 293810)

**References:**


Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3522/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D440M/A/2495/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D440M/A/2201- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D440M/99/905D & 905A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/034-004/Rev A, 23/02/2000


**PROJECT: 00401**
**BRICK KILN STREET, HINCKLEY**

**CADENT GAS LIMITED**

**INTERPRETED GROUNDWATER FLOW (AREAS B & C)**

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**FIGURE 11B**

REV -


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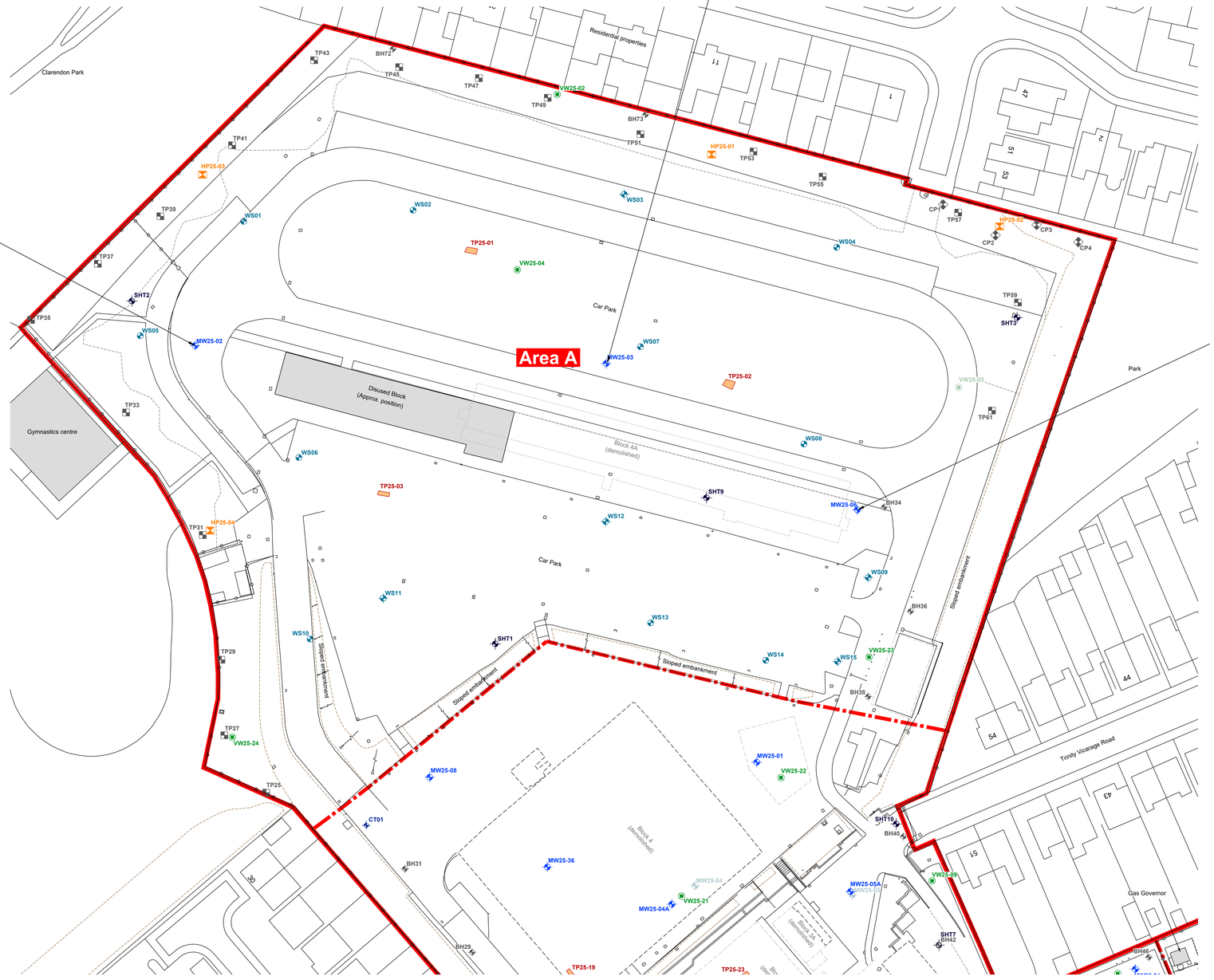
**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

N

| MW25-02 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.50 | Ammoniacal N (total) as N | mg L$^{-1}$ | 2.17784 |
| | Fluoranthene | mg L$^{-1}$ | 0.00009 |
| | Chromium (Total) | mg L$^{-1}$ | 0.0048 |
| | Copper | mg L$^{-1}$ | 0.0047 |
| | Lead | mg L$^{-1}$ | 0.004 |
| | Nickel | mg L$^{-1}$ | 0.005 |
| | Iron | mg L$^{-1}$ | 4.2 |

| MW25-03 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Fluoranthene | mg L$^{-1}$ | 0.00004 |

| MW25-06 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.20 | Copper | mg L$^{-1}$ | 0.0011 |




**Exceedance criteria:**

| Contaminant | Unit | Environmental Quality Standards for freshwater surface waters |
|---|---|---|
| Ammoniacal N (total) as N | mg L$^{-1}$ | 1.1 |
| Fluoranthene | mg L$^{-1}$ | 0.0000063 |
| Chromium (Total) | mg L$^{-1}$ | 0.0034 |
| Copper | mg L$^{-1}$ | 0.001 |
| Lead | mg L$^{-1}$ | 0.0012 |
| Nickel | mg L$^{-1}$ | 0.004 |
| Iron | mg L$^{-1}$ | 1 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)


**References:**
Bellamy Hughes Surveys, Site Investigation Locations, ref: 627261, 10/03/2025
Target Designs Drainage Layout, ref. 152127-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3522/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D4406A/3495/A3 - Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D4406A/2001-1 Historical Summary, April 2005
Celtic Technologies Ltd, Drawing No. D4406A/3504-B Window Sample and Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 1414104-004/Rev A, 23/02/2000


| | | | | | | | |
|---|---|---|---|---|---|---|---|
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REV -

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

N

| MW25-04A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.70 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.5556 |

| MW25-08 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.011 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 6.2224 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0002 |
| | Copper | mg.L$^{-1}$ | 0.002 |

| MW25-36 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.90 | Copper | mg.L$^{-1}$ | 0.0095 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00159 |
| | Nickel | mg.L$^{-1}$ | 0.0109 |

| TP25-19 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.60 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.96678 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00077 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00012 |
| | Copper | mg.L$^{-1}$ | 0.0082 |
| | Lead | mg.L$^{-1}$ | 0.01 |
| | Nickel | mg.L$^{-1}$ | 0.0072 |
| | Zinc | mg.L$^{-1}$ | 0.0162 |

| TP25-22 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.40 | Anthracene | mg.L$^{-1}$ | 0.00012 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00014 |
| | Cadmium | mg.L$^{-1}$ | 0.00015 |
| | Copper | mg.L$^{-1}$ | 0.0129 |
| | Nickel | mg.L$^{-1}$ | 0.01 |

| VW25-20A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.75 | Fluoranthene | mg.L$^{-1}$ | 0.0003 |
| | Copper | mg.L$^{-1}$ | 0.0037 |
| | Lead | mg.L$^{-1}$ | 0.003 |

| MW25-35 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Copper | mg.L$^{-1}$ | 0.0016 |
| | Nickel | mg.L$^{-1}$ | 0.0107 |
| | Zinc | mg.L$^{-1}$ | 0.0213 |

| MW25-07 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.50 | Cadmium | mg.L$^{-1}$ | 0.00354 |
| | Copper | mg.L$^{-1}$ | 0.0041 |
| | Lead | mg.L$^{-1}$ | 0.017 |
| | Nickel | mg.L$^{-1}$ | 0.0961 |
| | Zinc | mg.L$^{-1}$ | 0.7297 |

| MW25-09C | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 8.40 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.41118 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00028 |
| | Copper | mg.L$^{-1}$ | 0.0058 |

| MW25-15C | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.70 | Copper | mg.L$^{-1}$ | 0.0133 |
| | Lead | mg.L$^{-1}$ | 0.002 |
| | Nickel | mg.L$^{-1}$ | 0.0048 |

| TP25-20 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.80 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.087 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 31.112 |
| | Naphthalene | mg.L$^{-1}$ | 2.1455 |
| | Anthracene | mg.L$^{-1}$ | 0.00123 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00082 |
| | Nickel | mg.L$^{-1}$ | 0.0181 |
| | Benzene | mg.L$^{-1}$ | 0.025 |
| | Ethylbenzene | mg.L$^{-1}$ | 0.06 |
| | Xylenes (Total of m and p. o-xylenes) | mg.L$^{-1}$ | 0.39 |
| | Iron | mg.L$^{-1}$ | 19 |

| MW25-18 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 3.45 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.24448 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00004 |
| | Copper | mg.L$^{-1}$ | 0.0038 |
| | Iron | mg.L$^{-1}$ | 1.1 |

| VW25-21 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.75 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 4.04456 |
| | Copper | mg.L$^{-1}$ | 0.0097 |
| | Lead | mg.L$^{-1}$ | 0.002 |
| | Iron | mg.L$^{-1}$ | 5 |

| MW25-01 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.45 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 4.97792 |
| | Anthracene | mg.L$^{-1}$ | 0.00042 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00047 |
| | Chromium (Total) | mg.L$^{-1}$ | 0.0043 |
| | Copper | mg.L$^{-1}$ | 0.0065 |
| | Lead | mg.L$^{-1}$ | 0.004 |
| | Nickel | mg.L$^{-1}$ | 0.0052 |
| | Iron | mg.L$^{-1}$ | 1.4 |

| MW25-05A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.50 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 4.20012 |
| | Naphthalene | mg.L$^{-1}$ | 0.13491 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0005 |
| | Nickel | mg.L$^{-1}$ | 0.0107 |

| MW25-11 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.20 | Anthracene | mg.L$^{-1}$ | 0.00026 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00047 |
| | Copper | mg.L$^{-1}$ | 0.0026 |
| | Lead | mg.L$^{-1}$ | 0.002 |

| MW25-12 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.3334 |
| | Copper | mg.L$^{-1}$ | 0.005 |
| | Lead | mg.L$^{-1}$ | 0.002 |

| MW25-17 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.80 | Naphthalene | mg.L$^{-1}$ | 0.02988 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00053 |
| | Cadmium | mg.L$^{-1}$ | 0.00009 |
| | Copper | mg.L$^{-1}$ | 0.0024 |

| MW25-24 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.40 | Fluoranthene | mg.L$^{-1}$ | 0.0001 |
| | Benzo(ghi)perylene | mg.L$^{-1}$ | 0.00013 |
| | Copper | mg.L$^{-1}$ | 0.0278 |
| | Lead | mg.L$^{-1}$ | 0.01 |
| | Zinc | mg.L$^{-1}$ | 0.0146 |
| | Iron | mg.L$^{-1}$ | 1.3 |

| MW25-16A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.00 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 21.0006 |
| | Naphthalene | mg.L$^{-1}$ | 0.43184 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00056 |
| | Cadmium | mg.L$^{-1}$ | 0.00012 |
| | Copper | mg.L$^{-1}$ | 0.0132 |
| | Lead | mg.L$^{-1}$ | 0.004 |
| | Nickel | mg.L$^{-1}$ | 0.0108 |
| | Zinc | mg.L$^{-1}$ | 0.0202 |
| | Benzene | mg.L$^{-1}$ | 0.012 |
| | Iron | mg.L$^{-1}$ | 2.7 |

| MW25-29 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Arsenic | mg.L$^{-1}$ | 0.055 |

**Exceedance criteria:**

| Contaminant | Unit | Environmental Quality Standards for freshwater surface waters |
|---|---|---|
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.001 |
| Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.1 |
| Cresols (Total) | mg.L$^{-1}$ | 0.1 |
| Phenol | mg.L$^{-1}$ | 0.0077 |
| Naphthalene | mg.L$^{-1}$ | 0.002 |
| Anthracene | mg.L$^{-1}$ | 0.0001 |
| Fluoranthene | mg.L$^{-1}$ | 0.0000063 |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.000017 |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.000017 |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00000017 |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.0000082 |
| Arsenic | mg.L$^{-1}$ | 0.05 |
| Cadmium | mg.L$^{-1}$ | <0.00008 |
| Chromium (VI) | mg.L$^{-1}$ | 0.0034 |
| Chromium (Total) | mg.L$^{-1}$ | 0.0034 |
| Copper | mg.L$^{-1}$ | 0.001 |
| Lead | mg.L$^{-1}$ | 0.0012 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00007 |
| Nickel | mg.L$^{-1}$ | 0.004 |
| Zinc | mg.L$^{-1}$ | 0.0123 |
| Benzene | mg.L$^{-1}$ | 0.01 |
| Toluene | mg.L$^{-1}$ | 0.074 |
| Ethylbenzene | mg.L$^{-1}$ | 0.02 |
| Xylenes (Total of m and p. o-xylenes) | mg.L$^{-1}$ | 0.03 |
| Iron | mg.L$^{-1}$ | 1 |

| MW25-27 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.50 | Naphthalene | mg.L$^{-1}$ | 0.00237 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00005 |
| | Copper | mg.L$^{-1}$ | 0.0015 |
| | Lead | mg.L$^{-1}$ | 0.003 |
| 3.30 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 28.7786 |
| | Cresols (Total) | mg.L$^{-1}$ | 2.322 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00517 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00026 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00011 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00009 |
| | Chromium (VI) | mg.L$^{-1}$ | 0.007 |
| | Chromium (Total) | mg.L$^{-1}$ | 0.0072 |
| | Copper | mg.L$^{-1}$ | 0.0116 |
| | Lead | mg.L$^{-1}$ | 0.004 |
| | Nickel | mg.L$^{-1}$ | 0.0082 |
| | Zinc | mg.L$^{-1}$ | 0.0171 |
| | Benzene | mg.L$^{-1}$ | 0.045 |
| | Ethylbenzene | mg.L$^{-1}$ | 0.052 |
| | Xylenes (Total of m and p. o-xylenes) | mg.L$^{-1}$ | 0.39 |
| | Iron | mg.L$^{-1}$ | 5.7 |

| TP25-18 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.50 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.40004 |
| | Naphthalene | mg.L$^{-1}$ | 0.70827 |
| | Anthracene | mg.L$^{-1}$ | 0.00627 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00126 |
| | Copper | mg.L$^{-1}$ | 0.0054 |
| | Lead | mg.L$^{-1}$ | 0.002 |

| MW25-23B | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 4.70 | Naphthalene | mg.L$^{-1}$ | 0.00298 |
| | Anthracene | mg.L$^{-1}$ | 0.00216 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00039 |
| | Copper | mg.L$^{-1}$ | 0.0101 |
| | Xylenes (Total of m and p. o-xylenes) | mg.L$^{-1}$ | 0.049 |

| TP25-25 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.40 | Fluoranthene | mg.L$^{-1}$ | 0.00006 |
| | Cadmium | mg.L$^{-1}$ | 0.0001 |
| | Copper | mg.L$^{-1}$ | 0.0032 |

| MW25-25 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.40 | Copper | mg.L$^{-1}$ | 0.002 |

| MW25-34 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.30 | Naphthalene | mg.L$^{-1}$ | 0.1098 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00026 |
| | Cadmium | mg.L$^{-1}$ | 0.00013 |
| | Copper | mg.L$^{-1}$ | 0.0053 |

| MW25-20 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Copper | mg.L$^{-1}$ | 0.0027 |
| | Lead | mg.L$^{-1}$ | 0.01 |

| MW25-28A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.60 | Copper | mg.L$^{-1}$ | 0.011 |
| | Lead | mg.L$^{-1}$ | 0.015 |
| | Iron | mg.L$^{-1}$ | 1.4 |

| MW25-22 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.40-4.00 | Phenol | mg.L$^{-1}$ | 0.2918 |
| | Naphthalene | mg.L$^{-1}$ | 0.01989 |
| | Anthracene | mg.L$^{-1}$ | 0.00127 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00077 |
| | Copper | mg.L$^{-1}$ | 0.0148 |

| VW25-25 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.20 | Copper | mg.L$^{-1}$ | 0.0089 |
| | Lead | mg.L$^{-1}$ | 0.005 |
| | Zinc | mg.L$^{-1}$ | 0.0266 |

| MW25-19A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.30 | Fluoranthene | mg.L$^{-1}$ | 0.00014 |
| | Chromium (Total) | mg.L$^{-1}$ | 0.0035 |
| | Copper | mg.L$^{-1}$ | 0.0038 |
| | Lead | mg.L$^{-1}$ | 0.11 |
| | Iron | mg.L$^{-1}$ | 1.2 |

| VW25-18 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.26676 |
| | Naphthalene | mg.L$^{-1}$ | 0.00847 |
| | Anthracene | mg.L$^{-1}$ | 0.00065 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00056 |
| | Copper | mg.L$^{-1}$ | 0.0111 |
| | Lead | mg.L$^{-1}$ | 0.002 |
| | Ethylbenzene | mg.L$^{-1}$ | 0.057 |

| MW25-21 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Fluoranthene | mg.L$^{-1}$ | 0.00013 |
| | Chromium (Total) | mg.L$^{-1}$ | 0.0039 |
| | Copper | mg.L$^{-1}$ | 0.0133 |
| | Lead | mg.L$^{-1}$ | 0.003 |
| | Iron | mg.L$^{-1}$ | 1.9 |

| MW25-31A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.30 | Copper | mg.L$^{-1}$ | 0.002 |
| | Lead | mg.L$^{-1}$ | 0.003 |

| VW25-17 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.25 | Fluoranthene | mg.L$^{-1}$ | 0.00009 |
| | Chromium (Total) | mg.L$^{-1}$ | 0.0036 |
| | Copper | mg.L$^{-1}$ | 0.0099 |
| | Iron | mg.L$^{-1}$ | 1.3 |

| MW25-33 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 4.00 | Cadmium | mg.L$^{-1}$ | 0.00011 |
| | Copper | mg.L$^{-1}$ | 0.0017 |

| MW25-13A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.70 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.711116 |
| | Naphthalene | mg.L$^{-1}$ | 1.2112 |
| | Copper | mg.L$^{-1}$ | 0.0024 |
| | Benzene | mg.L$^{-1}$ | 0.041 |
| | Toluene | mg.L$^{-1}$ | 0.095 |
| | Ethylbenzene | mg.L$^{-1}$ | 0.065 |
| | Xylenes (Total of m and p. o-xylenes) | mg.L$^{-1}$ | 0.31 |

| MW25-30B | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.20 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.32226 |
| | Naphthalene | mg.L$^{-1}$ | 0.71 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00316 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00053 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00021 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00061 |
| | Copper | mg.L$^{-1}$ | 0.0148 |
| | Benzene | mg.L$^{-1}$ | 0.063 |
| | Toluene | mg.L$^{-1}$ | 0.15 |
| | Ethylbenzene | mg.L$^{-1}$ | 0.087 |
| | Xylenes (Total of m and p. o-xylenes) | mg.L$^{-1}$ | 0.26 |

| MW25-10 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.50 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.3334 |
| | Naphthalene | mg.L$^{-1}$ | 0.98144 |
| | Anthracene | mg.L$^{-1}$ | 0.00685 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00198 |
| | Copper | mg.L$^{-1}$ | 0.0153 |
| | Benzene | mg.L$^{-1}$ | 0.13 |
| | Toluene | mg.L$^{-1}$ | 0.29 |
| | Ethylbenzene | mg.L$^{-1}$ | 0.12 |
| | Xylenes (Total of m and p. o-xylenes) | mg.L$^{-1}$ | 0.41 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)


**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 627/25/1, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
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Celtic Technologies Ltd, Drawing No. D4406B/9/0503 & 9004- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141034-004/Rev A, 23/02/2000


PROJECT: 00401
BRICK KILN STREET, HINCKLEY

CADENT GAS LIMITED

LEACHATE EXCEEDANCES (EQS)

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| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 925 1504 | FIGURE 12B | REV |
|---|---|---|---|---|---|---|---|---|---|
| PM | DRAFT | - | A0 | JUN 2025 | 1:400 | LONDON | www.worley.com | | - |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

N

| MW25-04A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.70 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.18 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 2 |

| VW25-21 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.75 | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 5.2 |
| | Arsenic | mg.L$^{-1}$ | 0.034 |
| | Iron | mg.L$^{-1}$ | 5 |

| MW25-01 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.45 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.052 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 6.4 |
| | Iron | mg.L$^{-1}$ | 1.4 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.22 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.13 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.34 |

| MW25-05A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.50 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.22 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 5.4 |
| | Arsenic | mg.L$^{-1}$ | 0.013 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 1.98 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.36 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.11 |

| MW25-11 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.20 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.85 |
| | Iron | mg.L$^{-1}$ | 0.6 |

| MW25-12 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.09 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 3 |

| MW25-24 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.40 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.066 |
| | Iron | mg.L$^{-1}$ | 1.3 |

| MW25-17 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.80 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.11 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 1 |
| | Benzene | mg.L$^{-1}$ | 0.003 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.17 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.32 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.12 |

| MW25-08 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.8 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 8 |
| | Iron | mg.L$^{-1}$ | 0.42 |

| MW25-36 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.90 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.2 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 0.61 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00159 |

| TP25-19 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.60 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.064 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 5.1 |
| | Arsenic | mg.L$^{-1}$ | 0.034 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.15 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.13 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.12 |

| VW25-20A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.75 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.31 |
| | Iron | mg.L$^{-1}$ | 0.41 |

| TP25-22 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.40 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.88 |
| | Iron | mg.L$^{-1}$ | 0.47 |

| MW25-35 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.2 |

| MW25-07 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.50 | Lead | mg.L$^{-1}$ | 0.017 |
| | Nickel | mg.L$^{-1}$ | 0.0961 |

| MW25-09C | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 8.40 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.099 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 3.1 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.6 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.26 |

| TP25-20 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.80 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 50 |
| | Easily liberatable cyanide | mg.L$^{-1}$ | 0.087 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 40 |
| | Benzene | mg.L$^{-1}$ | 0.025 |
| | Iron | mg.L$^{-1}$ | 19 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.47 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 3.46 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.79 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.21 |

| MW25-15C | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.70 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.45 |
| | Iron | mg.L$^{-1}$ | 0.27 |

| MW25-18 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 3.45 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.19 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 1.6 |
| | Iron | mg.L$^{-1}$ | 1.1 |

| MW25-16A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.00 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.9 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 27 |
| | Arsenic | mg.L$^{-1}$ | 0.011 |
| | Benzene | mg.L$^{-1}$ | 0.012 |
| | Iron | mg.L$^{-1}$ | 2.7 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 2.14 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.8 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.46 |

| MW25-29 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.057 |
| | Arsenic | mg.L$^{-1}$ | 0.055 |

| MW25-28A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.60 | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 0.54 |
| | Lead | mg.L$^{-1}$ | 0.015 |
| | Iron | mg.L$^{-1}$ | 1.4 |

| MW25-22 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.40-4.00 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.21 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 1.4 |
| | Benzene | mg.L$^{-1}$ | 0.004 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.44 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.22 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.18 |

| VW25-25 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.20 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.21 |
| | Arsenic | mg.L$^{-1}$ | 0.022 |
| | Iron | mg.L$^{-1}$ | 0.72 |

| MW25-19A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.30 | Lead | mg.L$^{-1}$ | 0.11 |
| | Iron | mg.L$^{-1}$ | 1.2 |

| MW25-21 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.30 | Iron | mg.L$^{-1}$ | 1.9 |

| VW25-18 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 4.2 |
| | Benzene | mg.L$^{-1}$ | 0.005 |
| | Iron | mg.L$^{-1}$ | 0.56 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.099 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.49 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.27 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.16 |

| MW25-31A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.30 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.081 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 0.62 |
| | Iron | mg.L$^{-1}$ | 0.42 |

| VW25-17 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 0.25 | Iron | mg.L$^{-1}$ | 1.3 |

| MW25-13A | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.70 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 2.2 |
| | Benzene | mg.L$^{-1}$ | 0.041 |
| | Iron | mg.L$^{-1}$ | 0.54 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.42 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 4.11 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 2.07 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.49 |

| MW25-30B | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.20 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.33 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 1.7 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00061 |
| | Arsenic | mg.L$^{-1}$ | 0.022 |
| | Benzene | mg.L$^{-1}$ | 0.063 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.37 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 2.44 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.12 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.28 |

| MW25-10 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.50 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.87 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 3 |
| | Arsenic | mg.L$^{-1}$ | 0.018 |
| | Benzene | mg.L$^{-1}$ | 0.13 |
| | Iron | mg.L$^{-1}$ | 0.48 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.55 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 3.54 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.57 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.36 |

| MW25-34 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.30 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.54 |
| | Iron | mg.L$^{-1}$ | 0.56 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.27 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.17 |

| MW25-20 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.00 | Iron | mg.L$^{-1}$ | 0.36 |

| TP25-25 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 1.40 | Iron | mg.L$^{-1}$ | 0.61 |

| MW25-25 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.40 | Iron | mg.L$^{-1}$ | 0.92 |

| MW25-27 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 3.30 | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 37 |
| | Benzene | mg.L$^{-1}$ | 0.045 |
| | Iron | mg.L$^{-1}$ | 5.7 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.48 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 10.1 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.85 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.25 |

| TP25-18 | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 2.50 | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 1.8 |
| | Iron | mg.L$^{-1}$ | 0.93 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 1.81 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.92 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.5 |

| MW25-23B | | | |
|---|---|---|---|
| Depth (m bgl) | Contaminant | Unit | Concentration |
| 4.70 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.053 |
| | Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 0.82 |
| | Iron | mg.L$^{-1}$ | 0.76 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.63 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.54 |

**Exceedance criteria:**

| Contaminant | Unit | Combined Drinking Water Screening values |
|---|---|---|
| Conductivity | µS.cm$^{-1}$ | 2500 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.05 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.05 |
| Chloride | mg.L$^{-1}$ | 250 |
| Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | mg.L$^{-1}$ | 0.5 |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.0001 |
| Arsenic | mg.L$^{-1}$ | 0.01 |
| Cadmium | mg.L$^{-1}$ | 0.005 |
| Chromium (Total) | mg.L$^{-1}$ | 0.05 |
| Copper | mg.L$^{-1}$ | 2 |
| Lead | mg.L$^{-1}$ | 0.01 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.001 |
| Nickel | mg.L$^{-1}$ | 0.02 |
| Selenium | mg.L$^{-1}$ | 0.01 |
| Benzene | mg.L$^{-1}$ | 0.001 |
| Toluene | mg.L$^{-1}$ | 0.7 |
| Ethylbenzene | mg.L$^{-1}$ | 0.3 |
| Xylenes (Total of m and p, o-xylenes) | mg.L$^{-1}$ | 0.5 |
| Iron | mg.L$^{-1}$ | 0.2 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 15 |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 15 |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.3 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.3 |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.09 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.09 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.09 |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.09 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)

**References:**
Target Surveys, Surveys, Site Investigation Locations, ref. 627251: 10/03/2025
Target Designs Drainage Layout, ref. 152127-201 rev. C, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191552/R2, 23/06/08
Celtic Technologies Ltd, Drawing No. D440MA/2/05/A2: Site Layout, January 2000
Celtic Technologies Ltd, Drawing No. D440MA/2/201- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D440MW9/9000-A 900A: Exploratory Hole/Groundwater Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141004-00ARev A, 25/02/2000

| | |
|---|---|
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| LEACHATE EXCEEDANCES (DWS) | worley consulting |
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| FIGURE 13 | REV - |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

N

| MW25-02 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Copper | mg.L$^{-1}$ | 0.0015 |
| 2 | Copper | mg.L$^{-1}$ | 0.0015 |
| 2 (DUP) | Copper | mg.L$^{-1}$ | 0.0012 |
| 3 | Copper | mg.L$^{-1}$ | 0.0026 |
| | Zinc | mg.L$^{-1}$ | 0.0294 |
| 3 (DUP) | Copper | mg.L$^{-1}$ | 0.0023 |

| MW25-03 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Copper | mg.L$^{-1}$ | 0.0031 |
| | Nickel | mg.L$^{-1}$ | 0.0041 |
| 1 (DUP) | Copper | mg.L$^{-1}$ | 0.003 |
| 2 | Copper | mg.L$^{-1}$ | 0.0011 |
| 3 | Copper | mg.L$^{-1}$ | 0.0013 |
| 3 (DUP) | Copper | mg.L$^{-1}$ | 0.0013 |

| MW25-06 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Copper | mg.L$^{-1}$ | 0.0027 |
| 2 | Copper | mg.L$^{-1}$ | 0.0015 |
| 2 (DUP) | Copper | mg.L$^{-1}$ | 0.0012 |
| 3 | Copper | mg.L$^{-1}$ | 0.0019 |
| 3 (DUP) | Copper | mg.L$^{-1}$ | 0.002 |

Area A

Clarendon Park
Residential properties
Gymnastics centre
Car Park
Park
Diused Block (Approx. position)
Block 4A (demolished)
Block 4 (demolished)
Block 5A (demolished)
Sloped embankment
Trinity Vicarage Road
Gas Governor

**Exceedance criteria:**

| Contaminant | Unit | Environmental Quality Standards for freshwater surface waters |
|---|---|---|
| Copper | mg.L$^{-1}$ | 0.001 |
| Nickel | mg.L$^{-1}$ | 0.004 |
| Zinc | mg.L$^{-1}$ | 0.0123 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

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- Groundwater re-injection borehole
- Groundwater elevation monitoring borehole
- NAPL recovery borehole

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- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

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- Cable Percussion Boreholes (2008)
- Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- Window Samples (March 1999)
- Boreholes (April 1999)
- Trial Pits (April 1999)

**Previous Site Investigation Locations**

- Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)

**References:**
Topographic Survey, Site Investigation Locations, ref: 627321, 10/03/2025
Target Designs Drainage Layout, ref. 152127-001 rev. E, October 2006
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Celtic Technologies Ltd, Drawing No. D440MA/A3/495/A3- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D440MA/D/001- Historical Summary, April 2005
Celtic Technologies Ltd, Drawing No. D440MA/A3/500- Historical Exploratory Hole/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141034-004/Rev A, 25/02/2000

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PROJECT: 00401<br>BRICK KILN STREET, HINCKLEY | | | | | | | CADENT GAS LIMITED | |
| GROUNDWATER EXCEEDANCES (EQS) | | | | | | | worley consulting | |
| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE | T +44 (0)117 925 1304<br>www.worley.com | FIGURE 14A | REV - |
| RM | DRAFT | - | A0 | JUN 2025 | 1:400 | LONDON | | | |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

**MW25-08**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 1580 |
| | Chloride | mg.L$^{-1}$ | 330 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 28.0008 |
| | Anthracene | mg.L$^{-1}$ | 0.00027 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0011 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.0003 |
| | Iron | mg.L$^{-1}$ | 1.6 |
| 2 | Sulphate | mg.L$^{-1}$ | 1530 |
| | Chloride | mg.L$^{-1}$ | 440 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 35.7788 |
| | Naphthalene | mg.L$^{-1}$ | 0.0021 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0001 |
| | Nickel | mg.L$^{-1}$ | 0.0063 |
| 3 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.02 |
| | Sulphate | mg.L$^{-1}$ | 1520 |
| | Chloride | mg.L$^{-1}$ | 540 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 37.3344 |
| | Anthracene | mg.L$^{-1}$ | 0.00028 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0012 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00047 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00031 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00045 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00029 |
| | Copper | mg.L$^{-1}$ | 0.0019 |
| | Nickel | mg.L$^{-1}$ | 0.0076 |

**MW25-36**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.64452 |
| | Copper | mg.L$^{-1}$ | 0.0023 |
| | Nickel | mg.L$^{-1}$ | 0.0058 |
| 1 (DUP) | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.64452 |
| | Copper | mg.L$^{-1}$ | 0.0028 |
| | Nickel | mg.L$^{-1}$ | 0.0055 |
| 2 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.64452 |
| | Copper | mg.L$^{-1}$ | 0.0029 |
| | Nickel | mg.L$^{-1}$ | 0.0051 |
| 3 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.3334 |
| | Copper | mg.L$^{-1}$ | 0.004 |
| | Nickel | mg.L$^{-1}$ | 0.0051 |

**MW25-04A**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Chloride | mg.L$^{-1}$ | 360 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 5.52238 |
| | Copper | mg.L$^{-1}$ | 0.0033 |
| | Nickel | mg.L$^{-1}$ | 0.0055 |
| 2 | Chloride | mg.L$^{-1}$ | 350 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 4.43346 |
| | Copper | mg.L$^{-1}$ | 0.0024 |
| | Nickel | mg.L$^{-1}$ | 0.0053 |
| 3 | Chloride | mg.L$^{-1}$ | 380 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.57788 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00021 |
| | Copper | mg.L$^{-1}$ | 0.0029 |
| | Nickel | mg.L$^{-1}$ | 0.0052 |
| 3 (DUP) | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.03342 |
| | Copper | mg.L$^{-1}$ | 0.002 |
| | Nickel | mg.L$^{-1}$ | 0.0061 |
| | Zinc | mg.L$^{-1}$ | 0.0201 |

**MW25-01**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.86672 |
| | Copper | mg.L$^{-1}$ | 0.0051 |
| | Nickel | mg.L$^{-1}$ | 0.0054 |
| 2 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.1112 |
| | Copper | mg.L$^{-1}$ | 0.002 |
| | Nickel | mg.L$^{-1}$ | 0.005 |
| 2 (DUP) | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.95564 |
| | Copper | mg.L$^{-1}$ | 0.0023 |
| | Nickel | mg.L$^{-1}$ | 0.0049 |
| 3 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.95564 |
| | Copper | mg.L$^{-1}$ | 0.0012 |
| | Nickel | mg.L$^{-1}$ | 0.0052 |

**MW25-05A**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Chloride | mg.L$^{-1}$ | 280 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0001 |
| | Copper | mg.L$^{-1}$ | 0.0058 |
| | Nickel | mg.L$^{-1}$ | 0.0064 |
| 2 | Chloride | mg.L$^{-1}$ | 290 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00005 |
| | Cadmium | mg.L$^{-1}$ | 0.00009 |
| | Copper | mg.L$^{-1}$ | 0.004 |
| | Nickel | mg.L$^{-1}$ | 0.0078 |
| 3 | Cadmium | mg.L$^{-1}$ | 0.00009 |
| | Copper | mg.L$^{-1}$ | 0.0021 |
| | Nickel | mg.L$^{-1}$ | 0.0095 |

**MW25-11**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 851 |
| | Copper | mg.L$^{-1}$ | 0.0059 |
| | Nickel | mg.L$^{-1}$ | 0.0049 |
| 2 | Sulphate | mg.L$^{-1}$ | 625 |
| | Copper | mg.L$^{-1}$ | 0.0029 |
| | Nickel | mg.L$^{-1}$ | 0.0058 |
| 3 | Chloride | mg.L$^{-1}$ | 300 |
| | Copper | mg.L$^{-1}$ | 0.0095 |
| | Nickel | mg.L$^{-1}$ | 0.0076 |
| | Zinc | mg.L$^{-1}$ | 0.0199 |

**MW25-12**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Chloride | mg.L$^{-1}$ | 510 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 5.4446 |
| | Copper | mg.L$^{-1}$ | 0.0019 |
| | Nickel | mg.L$^{-1}$ | 0.0042 |
| 2 | Chloride | mg.L$^{-1}$ | 560 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 5.91128 |
| | Copper | mg.L$^{-1}$ | 0.0013 |
| 3 | Chloride | mg.L$^{-1}$ | 560 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 4.90014 |
| | Naphthalene | mg.L$^{-1}$ | 0.0032 |
| | Copper | mg.L$^{-1}$ | 0.0017 |

**MW25-17**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | pH | pH Units | 10.4 |
| | Sulphate | mg.L$^{-1}$ | 1630 |
| | Chloride | mg.L$^{-1}$ | 1900 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 10.8892 |
| | Naphthalene | mg.L$^{-1}$ | 0.19 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0012 |
| | Iron | mg.L$^{-1}$ | 1.7 |
| | Arsenic | mg.L$^{-1}$ | 0.059 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00106 |
| | Nickel | mg.L$^{-1}$ | 0.023 |
| 2 | pH | pH Units | 10.6 |
| | Sulphate | mg.L$^{-1}$ | 1520 |
| | Chloride | mg.L$^{-1}$ | 1800 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 9.3336 |
| | Naphthalene | mg.L$^{-1}$ | 0.11 |
| | Anthracene | mg.L$^{-1}$ | 0.0021 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0014 |
| | Iron | mg.L$^{-1}$ | 1.2 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00199 |
| | Nickel | mg.L$^{-1}$ | 0.018 |
| 3 | pH | pH Units | 10.7 |
| | Sulphate | mg.L$^{-1}$ | 2220 |
| | Chloride | mg.L$^{-1}$ | 1800 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 7.778 |
| | Naphthalene | mg.L$^{-1}$ | 0.21 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0015 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00118 |
| | Nickel | mg.L$^{-1}$ | 0.013 |
| | Benzene | mg.L$^{-1}$ | 0.022 |

**MW25-22**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | pH | pH Units | 11.2 |
| | Sulphate | mg.L$^{-1}$ | 435 |
| | Chloride | mg.L$^{-1}$ | 330 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 5.36682 |
| | Naphthalene | mg.L$^{-1}$ | 0.075 |
| | Anthracene | mg.L$^{-1}$ | 0.0025 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0024 |
| | Copper | mg.L$^{-1}$ | 0.0013 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00029 |
| | Nickel | mg.L$^{-1}$ | 0.016 |
| 2 | pH | pH Units | 11.5 |
| | Sulphate | mg.L$^{-1}$ | 468 |
| | Chloride | mg.L$^{-1}$ | 310 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 7.46688 |
| | Cresols (Total) | mg.L$^{-1}$ | 0.23 |
| | Naphthalene | mg.L$^{-1}$ | 0.099 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0028 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00079 |
| | Nickel | mg.L$^{-1}$ | 0.018 |
| 3 | pH | pH Units | 11.4 |
| | Sulphate | mg.L$^{-1}$ | 588 |
| | Chloride | mg.L$^{-1}$ | 300 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 5.52238 |
| | Naphthalene | mg.L$^{-1}$ | 0.084 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0042 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00036 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00038 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00027 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00028 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00026 |
| | Nickel | mg.L$^{-1}$ | 0.013 |
| | Benzene | mg.L$^{-1}$ | 0.028 |

**MW25-28A**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Copper | mg.L$^{-1}$ | 0.0022 |
| 1 (DUP) | Copper | mg.L$^{-1}$ | 0.0021 |
| 2 | Copper | mg.L$^{-1}$ | 0.0013 |
| | Nickel | mg.L$^{-1}$ | 0.0049 |
| 3 | Copper | mg.L$^{-1}$ | 0.0041 |

**MW25-07**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 913 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.10006 |
| | Cadmium | mg.L$^{-1}$ | 0.00017 |
| | Copper | mg.L$^{-1}$ | 0.0044 |
| | Nickel | mg.L$^{-1}$ | 0.013 |
| 2 | Sulphate | mg.L$^{-1}$ | 637 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.25562 |
| | Cadmium | mg.L$^{-1}$ | 0.00035 |
| | Copper | mg.L$^{-1}$ | 0.0048 |
| | Nickel | mg.L$^{-1}$ | 0.014 |
| 3 | Sulphate | mg.L$^{-1}$ | 833 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.9445 |
| | Cadmium | mg.L$^{-1}$ | 0.0005 |
| | Copper | mg.L$^{-1}$ | 0.0094 |
| | Nickel | mg.L$^{-1}$ | 0.017 |
| | Zinc | mg.L$^{-1}$ | 0.0324 |

**MW25-35**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Chloride | mg.L$^{-1}$ | 610 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.10006 |
| | Naphthalene | mg.L$^{-1}$ | 0.0022 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00016 |
| | Copper | mg.L$^{-1}$ | 0.0033 |
| 2 | Chloride | mg.L$^{-1}$ | 490 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.86672 |
| | Copper | mg.L$^{-1}$ | 0.0042 |
| 3 | Chloride | mg.L$^{-1}$ | 490 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.86672 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00009 |
| | Copper | mg.L$^{-1}$ | 0.002 |
| | Nickel | mg.L$^{-1}$ | 0.0042 |

**MW25-19A**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Chloride | mg.L$^{-1}$ | 470 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.56674 |
| | Copper | mg.L$^{-1}$ | 0.0025 |
| | Nickel | mg.L$^{-1}$ | 0.0059 |
| 2 | Chloride | mg.L$^{-1}$ | 460 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.889 |
| | Copper | mg.L$^{-1}$ | 0.0025 |
| | Nickel | mg.L$^{-1}$ | 0.0045 |
| 3 | Chloride | mg.L$^{-1}$ | 560 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 4.90014 |
| | Copper | mg.L$^{-1}$ | 0.0026 |
| | Nickel | mg.L$^{-1}$ | 0.0061 |

**CBH104**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 690 |
| | Chloride | mg.L$^{-1}$ | 930 |
| | Cadmium | mg.L$^{-1}$ | 0.00028 |
| | Copper | mg.L$^{-1}$ | 0.006 |
| | Nickel | mg.L$^{-1}$ | 0.0068 |
| | Zinc | mg.L$^{-1}$ | 0.0499 |
| 2 | Sulphate | mg.L$^{-1}$ | 594 |
| | Chloride | mg.L$^{-1}$ | 900 |
| | Cadmium | mg.L$^{-1}$ | 0.0005 |
| | Copper | mg.L$^{-1}$ | 0.006 |
| | Nickel | mg.L$^{-1}$ | 0.0082 |
| | Zinc | mg.L$^{-1}$ | 0.0447 |
| 3 | Sulphate | mg.L$^{-1}$ | 605 |
| | Chloride | mg.L$^{-1}$ | 950 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00054 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00039 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.0002 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00037 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00023 |
| | Cadmium | mg.L$^{-1}$ | 0.0003 |
| | Copper | mg.L$^{-1}$ | 0.0071 |
| | Lead | mg.L$^{-1}$ | 0.0052 |
| | Nickel | mg.L$^{-1}$ | 0.013 |
| | Zinc | mg.L$^{-1}$ | 0.0267 |

**CBH102**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 547 |
| | Chloride | mg.L$^{-1}$ | 340 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00007 |
| | Copper | mg.L$^{-1}$ | 0.003 |
| | Zinc | mg.L$^{-1}$ | 0.0175 |
| 2 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.03342 |
| | Copper | mg.L$^{-1}$ | 0.0046 |
| | Nickel | mg.L$^{-1}$ | 0.0047 |
| | Zinc | mg.L$^{-1}$ | 0.0166 |

**MW25-09C**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.02 |
| | Sulphate | mg.L$^{-1}$ | 1280 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.41118 |
| | Naphthalene | mg.L$^{-1}$ | 0.015 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00085 |
| | Copper | mg.L$^{-1}$ | 0.0013 |
| 2 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 |
| | Sulphate | mg.L$^{-1}$ | 1210 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.10006 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0008 |
| | Copper | mg.L$^{-1}$ | 0.0027 |
| 3 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.02 |
| | Sulphate | mg.L$^{-1}$ | 1130 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.17784 |
| | Naphthalene | mg.L$^{-1}$ | 0.007 |
| | Copper | mg.L$^{-1}$ | 0.011 |
| | Zinc | mg.L$^{-1}$ | 0.0463 |

**MW25-32**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 1560 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 186.672 |
| | Copper | mg.L$^{-1}$ | 0.0025 |
| 2 | Sulphate | mg.L$^{-1}$ | 1870 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 280.008 |
| | Copper | mg.L$^{-1}$ | 0.0029 |
| 3 | Sulphate | mg.L$^{-1}$ | 1240 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 202.228 |
| | Naphthalene | mg.L$^{-1}$ | 0.0022 |
| | Copper | mg.L$^{-1}$ | 0.0028 |

**MW25-21**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Chloride | mg.L$^{-1}$ | 750 |
| | Cadmium | mg.L$^{-1}$ | 0.00009 |
| | Copper | mg.L$^{-1}$ | 0.0031 |
| 2 | Chloride | mg.L$^{-1}$ | 1000 |
| | Cadmium | mg.L$^{-1}$ | 0.00014 |
| | Copper | mg.L$^{-1}$ | 0.003 |
| 3 | Chloride | mg.L$^{-1}$ | 930 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00015 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00025 |
| | Cadmium | mg.L$^{-1}$ | 0.00013 |
| | Copper | mg.L$^{-1}$ | 0.0033 |

**MW25-31A**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Copper | mg.L$^{-1}$ | 0.0013 |
| 2 | Copper | mg.L$^{-1}$ | 0.0027 |
| 3 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.24448 |
| | Naphthalene | mg.L$^{-1}$ | 0.003 |
| | Copper | mg.L$^{-1}$ | 0.0031 |

**MW25-15C**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 874 |
| | Chloride | mg.L$^{-1}$ | 460 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 5.75572 |
| | Cadmium | mg.L$^{-1}$ | 0.00018 |
| | Copper | mg.L$^{-1}$ | 0.0035 |
| 2 | Sulphate | mg.L$^{-1}$ | 667 |
| | Chloride | mg.L$^{-1}$ | 490 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 5.75572 |
| | Cresols (Total) | mg.L$^{-1}$ | 0.49 |
| | Cadmium | mg.L$^{-1}$ | 0.00013 |
| | Copper | mg.L$^{-1}$ | 0.0032 |
| 3 | Sulphate | mg.L$^{-1}$ | 477 |
| | Chloride | mg.L$^{-1}$ | 500 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 8.5558 |
| | Cadmium | mg.L$^{-1}$ | 0.0001 |
| | Copper | mg.L$^{-1}$ | 0.003 |

**MW25-13A**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 446 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.65566 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00072 |
| | Copper | mg.L$^{-1}$ | 0.0016 |
| 2 | Sulphate | mg.L$^{-1}$ | 474 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.42232 |
| | Naphthalene | mg.L$^{-1}$ | 0.011 |
| | Anthracene | mg.L$^{-1}$ | 0.0038 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0039 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00061 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00021 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00067 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00023 |
| | Iron | mg.L$^{-1}$ | 1.9 |
| | Copper | mg.L$^{-1}$ | 0.0016 |
| 3 | Sulphate | mg.L$^{-1}$ | 478 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.65566 |
| | Naphthalene | mg.L$^{-1}$ | 0.0028 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00052 |
| | Copper | mg.L$^{-1}$ | 0.0021 |

**MW25-33**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Naphthalene | mg.L$^{-1}$ | 0.011 |
| | Anthracene | mg.L$^{-1}$ | 0.0068 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0033 |
| | Iron | mg.L$^{-1}$ | 1.3 |
| | Copper | mg.L$^{-1}$ | 0.0015 |
| 2 | Sulphate | mg.L$^{-1}$ | 480 |
| | Naphthalene | mg.L$^{-1}$ | 0.042 |
| | Anthracene | mg.L$^{-1}$ | 0.024 |
| | Fluoranthene | mg.L$^{-1}$ | 0.031 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.0086 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.0029 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0079 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.0039 |
| | Copper | mg.L$^{-1}$ | 0.0017 |
| 3 | Sulphate | mg.L$^{-1}$ | 433 |
| | Naphthalene | mg.L$^{-1}$ | 0.014 |
| | Anthracene | mg.L$^{-1}$ | 0.0037 |
| | Fluoranthene | mg.L$^{-1}$ | 0.016 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.0044 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.0026 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0048 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.0026 |
| | Copper | mg.L$^{-1}$ | 0.0022 |

**CBH108**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 1220 |
| | Chloride | mg.L$^{-1}$ | 1700 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 14.0004 |
| | Cadmium | mg.L$^{-1}$ | 0.00021 |
| | Copper | mg.L$^{-1}$ | 0.0057 |
| | Nickel | mg.L$^{-1}$ | 0.0042 |
| | Zinc | mg.L$^{-1}$ | 0.0142 |
| 1 (DUP) | Sulphate | mg.L$^{-1}$ | 1330 |
| | Chloride | mg.L$^{-1}$ | 1700 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 14.0004 |
| | Cadmium | mg.L$^{-1}$ | 0.00023 |
| | Copper | mg.L$^{-1}$ | 0.017 |
| | Nickel | mg.L$^{-1}$ | 0.0044 |
| | Zinc | mg.L$^{-1}$ | 0.0132 |
| 2 | Sulphate | mg.L$^{-1}$ | 1070 |
| | Chloride | mg.L$^{-1}$ | 1500 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 17.8894 |
| | Cadmium | mg.L$^{-1}$ | 0.00026 |
| | Copper | mg.L$^{-1}$ | 0.0064 |
| | Nickel | mg.L$^{-1}$ | 0.0048 |
| 2 (DUP) | Sulphate | mg.L$^{-1}$ | 1140 |
| | Chloride | mg.L$^{-1}$ | 1500 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 17.8894 |
| | Cadmium | mg.L$^{-1}$ | 0.00025 |
| | Copper | mg.L$^{-1}$ | 0.006 |
| | Nickel | mg.L$^{-1}$ | 0.0046 |
| 3 | Sulphate | mg.L$^{-1}$ | 914 |
| | Chloride | mg.L$^{-1}$ | 1200 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 5.91128 |
| | Cadmium | mg.L$^{-1}$ | 0.00022 |
| | Copper | mg.L$^{-1}$ | 0.0094 |
| | Nickel | mg.L$^{-1}$ | 0.0053 |

**MW25-18**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 473 |
| | Chloride | mg.L$^{-1}$ | 260 |
| | Cadmium | mg.L$^{-1}$ | 0.00012 |
| | Copper | mg.L$^{-1}$ | 0.0083 |
| | Nickel | mg.L$^{-1}$ | 0.006 |
| 2 | Sulphate | mg.L$^{-1}$ | 458 |
| | Chloride | mg.L$^{-1}$ | 260 |
| | Cadmium | mg.L$^{-1}$ | 0.00012 |
| | Copper | mg.L$^{-1}$ | 0.0083 |
| | Nickel | mg.L$^{-1}$ | 0.0064 |
| 3 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.02 |
| | Sulphate | mg.L$^{-1}$ | 473 |
| | Chloride | mg.L$^{-1}$ | 260 |
| | Cadmium | mg.L$^{-1}$ | 0.00014 |
| | Copper | mg.L$^{-1}$ | 0.0086 |
| | Nickel | mg.L$^{-1}$ | 0.006 |

**MW25-14**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.03 |
| | Sulphate | mg.L$^{-1}$ | 1730 |
| | Chloride | mg.L$^{-1}$ | 350 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 35.7788 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00041 |
| | Iron | mg.L$^{-1}$ | 1.9 |
| | Copper | mg.L$^{-1}$ | 0.0021 |
| | Nickel | mg.L$^{-1}$ | 0.014 |
| 2 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.07 |
| | Sulphate | mg.L$^{-1}$ | 2050 |
| | Chloride | mg.L$^{-1}$ | 430 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 42.0012 |
| | Cresols (Total) | mg.L$^{-1}$ | 0.13 |
| | Naphthalene | mg.L$^{-1}$ | 0.039 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00013 |
| | Iron | mg.L$^{-1}$ | 3 |
| | Chromium (Total) | mg.L$^{-1}$ | 0.0035 |
| | Copper | mg.L$^{-1}$ | 0.0012 |
| | Nickel | mg.L$^{-1}$ | 0.022 |
| 3 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.05 |
| | Sulphate | mg.L$^{-1}$ | 1920 |
| | Chloride | mg.L$^{-1}$ | 340 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 34.2232 |
| | Naphthalene | mg.L$^{-1}$ | 0.019 |
| | Iron | mg.L$^{-1}$ | 2.1 |
| | Copper | mg.L$^{-1}$ | 0.003 |
| | Nickel | mg.L$^{-1}$ | 0.018 |

**CBH112**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 461 |
| | Chloride | mg.L$^{-1}$ | 690 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 8.5558 |
| | Copper | mg.L$^{-1}$ | 0.0055 |
| 2 | Sulphate | mg.L$^{-1}$ | 424 |
| | Chloride | mg.L$^{-1}$ | 730 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 14.0004 |
| | Copper | mg.L$^{-1}$ | 0.01 |
| 3 | Sulphate | mg.L$^{-1}$ | 436 |
| | Chloride | mg.L$^{-1}$ | 680 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 13.2226 |
| | Cadmium | mg.L$^{-1}$ | 0.00009 |
| | Copper | mg.L$^{-1}$ | 0.0048 |
| | Nickel | mg.L$^{-1}$ | 0.0043 |

**MW25-34**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 2.80008 |
| | Naphthalene | mg.L$^{-1}$ | 0.14 |
| | Anthracene | mg.L$^{-1}$ | 0.00084 |
| | Fluoranthene | mg.L$^{-1}$ | 0.00041 |
| 2 | Naphthalene | mg.L$^{-1}$ | 0.0091 |
| | Anthracene | mg.L$^{-1}$ | 0.00036 |
| | Copper | mg.L$^{-1}$ | 0.0022 |
| 3 | Fluoranthene | mg.L$^{-1}$ | 0.00009 |
| | Copper | mg.L$^{-1}$ | 0.0024 |

**MW25-10**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | pH | pH Units | 9.9 |
| | Easily liberatable cyanide | mg.L$^{-1}$ | 0.03 |
| | Sulphate | mg.L$^{-1}$ | 568 |
| | Chloride | mg.L$^{-1}$ | 350 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 20.2228 |
| | Naphthalene | mg.L$^{-1}$ | 1.7 |
| | Anthracene | mg.L$^{-1}$ | 0.0063 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0033 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00043 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00018 |
| | Iron | mg.L$^{-1}$ | 4.4 |
| | Arsenic | mg.L$^{-1}$ | 0.07 |
| | Cadmium | mg.L$^{-1}$ | 0.0001 |
| | Copper | mg.L$^{-1}$ | 0.0061 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00024 |
| | Nickel | mg.L$^{-1}$ | 0.015 |
| | Styrene | mg.L$^{-1}$ | 0.052 |
| 2 | pH | pH Units | 10.1 |
| | Easily liberatable cyanide | mg.L$^{-1}$ | 0.02 |
| | Sulphate | mg.L$^{-1}$ | 439 |
| | Chloride | mg.L$^{-1}$ | 350 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 18.6672 |
| | Naphthalene | mg.L$^{-1}$ | 1.4 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0023 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00053 |
| | Iron | mg.L$^{-1}$ | 3.2 |
| | Arsenic | mg.L$^{-1}$ | 0.079 |
| | Copper | mg.L$^{-1}$ | 0.0045 |
| | Lead | mg.L$^{-1}$ | 0.0021 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00011 |
| | Nickel | mg.L$^{-1}$ | 0.012 |
| | Styrene | mg.L$^{-1}$ | 0.114 |
| 3 | pH | pH Units | 10.2 |
| | Easily liberatable cyanide | mg.L$^{-1}$ | 0.02 |
| | Sulphate | mg.L$^{-1}$ | 423 |
| | Chloride | mg.L$^{-1}$ | 330 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 17.1116 |
| | Naphthalene | mg.L$^{-1}$ | 1.3 |
| | Anthracene | mg.L$^{-1}$ | 0.003 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0015 |
| | Iron | mg.L$^{-1}$ | 2.9 |
| | Arsenic | mg.L$^{-1}$ | 0.088 |
| | Cadmium | mg.L$^{-1}$ | 0.00013 |
| | Copper | mg.L$^{-1}$ | 0.0029 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00009 |
| | Nickel | mg.L$^{-1}$ | 0.012 |
| | Styrene | mg.L$^{-1}$ | 0.297 |

**MW25-30B**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | pH | pH Units | 9.6 |
| | Sulphate | mg.L$^{-1}$ | 583 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 3.96678 |
| | Naphthalene | mg.L$^{-1}$ | 0.27 |
| | Anthracene | mg.L$^{-1}$ | 0.0031 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0014 |
| | Iron | mg.L$^{-1}$ | 2 |
| | Copper | mg.L$^{-1}$ | 0.0016 |
| 2 | pH | pH Units | 10.1 |
| | Sulphate | mg.L$^{-1}$ | 494 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 7.46688 |
| | Naphthalene | mg.L$^{-1}$ | 0.8 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0014 |
| | Iron | mg.L$^{-1}$ | 1.2 |
| | Copper | mg.L$^{-1}$ | 0.0017 |
| | Nickel | mg.L$^{-1}$ | 0.0048 |
| 3 | pH | pH Units | 10.2 |
| | Sulphate | mg.L$^{-1}$ | 450 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 9.3336 |
| | Naphthalene | mg.L$^{-1}$ | 1.3 |
| | Anthracene | mg.L$^{-1}$ | 0.0037 |
| | Fluoranthene | mg.L$^{-1}$ | 0.002 |
| | Iron | mg.L$^{-1}$ | 1.2 |
| | Arsenic | mg.L$^{-1}$ | 0.052 |
| | Copper | mg.L$^{-1}$ | 0.0011 |
| | Nickel | mg.L$^{-1}$ | 0.0061 |

**MW25-29**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 59.1128 |
| | Naphthalene | mg.L$^{-1}$ | 0.06 |
| 2 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 52.8904 |
| | Naphthalene | mg.L$^{-1}$ | 0.2 |
| | Copper | mg.L$^{-1}$ | 0.0029 |
| 3 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 52.8904 |
| | Naphthalene | mg.L$^{-1}$ | 0.23 |

**CBH130**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Copper | mg.L$^{-1}$ | 0.0021 |
| 2 | Naphthalene | mg.L$^{-1}$ | 0.003 |
| | Copper | mg.L$^{-1}$ | 0.0033 |
| 3 | Naphthalene | mg.L$^{-1}$ | 0.0024 |
| | Copper | mg.L$^{-1}$ | 0.0029 |

**CBH126**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 23.334 |
| | Iron | mg.L$^{-1}$ | 2.9 |
| 2 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 24.8896 |
| | Cresols (Total) | mg.L$^{-1}$ | 0.48 |
| | Naphthalene | mg.L$^{-1}$ | 1.3 |
| | Iron | mg.L$^{-1}$ | 1.1 |
| | Copper | mg.L$^{-1}$ | 0.0016 |
| 3 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 24.8896 |
| | Naphthalene | mg.L$^{-1}$ | 0.18 |
| | Anthracene | mg.L$^{-1}$ | 0.00015 |
| | Copper | mg.L$^{-1}$ | 0.0013 |

**CBH129**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 448 |
| | Copper | mg.L$^{-1}$ | 0.0027 |
| | Nickel | mg.L$^{-1}$ | 0.0056 |
| 2 | Sulphate | mg.L$^{-1}$ | 523 |
| | Naphthalene | mg.L$^{-1}$ | 0.0057 |
| | Anthracene | mg.L$^{-1}$ | 0.0035 |
| | Fluoranthene | mg.L$^{-1}$ | 0.012 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.013 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.0062 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.015 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.0066 |
| | Cadmium | mg.L$^{-1}$ | 0.00015 |
| | Copper | mg.L$^{-1}$ | 0.0031 |
| | Nickel | mg.L$^{-1}$ | 0.0071 |
| 3 | Sulphate | mg.L$^{-1}$ | 528 |
| | Naphthalene | mg.L$^{-1}$ | 0.0025 |
| | Anthracene | mg.L$^{-1}$ | 0.00068 |
| | Fluoranthene | mg.L$^{-1}$ | 0.002 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.0022 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00079 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0022 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.0012 |
| | Cadmium | mg.L$^{-1}$ | 0.0001 |
| | Copper | mg.L$^{-1}$ | 0.0015 |
| | Nickel | mg.L$^{-1}$ | 0.0071 |

**MW25-16A-S**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 445 |
| | Chloride | mg.L$^{-1}$ | 1400 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 68.4464 |
| | Cresols (Total) | mg.L$^{-1}$ | 0.79 |
| | Naphthalene | mg.L$^{-1}$ | 2.3 |
| | Anthracene | mg.L$^{-1}$ | 0.36 |
| | Fluoranthene | mg.L$^{-1}$ | 0.81 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.28 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.13 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.27 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.13 |
| | Nickel | mg.L$^{-1}$ | 0.0068 |
| 2 | Chloride | mg.L$^{-1}$ | 1300 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 65.3352 |
| | Naphthalene | mg.L$^{-1}$ | 4.8 |
| | Anthracene | mg.L$^{-1}$ | 0.022 |
| | Fluoranthene | mg.L$^{-1}$ | 0.035 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.0068 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.0027 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0066 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.0031 |
| | Nickel | mg.L$^{-1}$ | 0.0088 |
| 3 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 44.3346 |
| | Arsenic | mg.L$^{-1}$ | 0.064 |
| | Copper | mg.L$^{-1}$ | 0.0012 |
| | Nickel | mg.L$^{-1}$ | 0.011 |

**MW25-16A-D**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 |
| | Chloride | mg.L$^{-1}$ | 1900 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 466.68 |
| | Cresols (Total) | mg.L$^{-1}$ | 0.88 |
| | Naphthalene | mg.L$^{-1}$ | 4.9 |
| | Anthracene | mg.L$^{-1}$ | 0.012 |
| | Fluoranthene | mg.L$^{-1}$ | 0.018 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0036 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.002 |
| | Copper | mg.L$^{-1}$ | 0.0011 |
| | Nickel | mg.L$^{-1}$ | 0.0041 |
| 2 | Chloride | mg.L$^{-1}$ | 1800 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 482.236 |
| | Cresols (Total) | mg.L$^{-1}$ | 0.56 |
| | Naphthalene | mg.L$^{-1}$ | 3.5 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0037 |
| 3 | Easily liberatable cyanide | mg.L$^{-1}$ | 0.02 |
| | Chloride | mg.L$^{-1}$ | 1800 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 381.122 |
| | Naphthalene | mg.L$^{-1}$ | 2.1 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0032 |
| | Copper | mg.L$^{-1}$ | 0.0015 |

**MW25-27**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 713 |
| | Chloride | mg.L$^{-1}$ | 700 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 497.792 |
| | Cresols (Total) | mg.L$^{-1}$ | 49 |
| | Naphthalene | mg.L$^{-1}$ | 4.1 |
| | Anthracene | mg.L$^{-1}$ | 0.0012 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0018 |
| | Iron | mg.L$^{-1}$ | 2.4 |
| | Chromium (Total) | mg.L$^{-1}$ | 0.0064 |
| | Copper | mg.L$^{-1}$ | 0.005 |
| | Zinc | mg.L$^{-1}$ | 0.0188 |
| 2 | Sulphate | mg.L$^{-1}$ | 601 |
| | Chloride | mg.L$^{-1}$ | 680 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 528.904 |
| | Cresols (Total) | mg.L$^{-1}$ | 50 |
| | Naphthalene | mg.L$^{-1}$ | 2.7 |
| | Anthracene | mg.L$^{-1}$ | 0.0021 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0043 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.001 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00034 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00085 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00053 |
| | Iron | mg.L$^{-1}$ | 1.8 |
| | Chromium (Total) | mg.L$^{-1}$ | 0.0059 |
| | Copper | mg.L$^{-1}$ | 0.0025 |
| | Nickel | mg.L$^{-1}$ | 0.0041 |
| 3 | Sulphate | mg.L$^{-1}$ | 580 |
| | Chloride | mg.L$^{-1}$ | 580 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 490.014 |
| | Cresols (Total) | mg.L$^{-1}$ | 48 |
| | Phenol | mg.L$^{-1}$ | 11 |
| | Naphthalene | mg.L$^{-1}$ | 3.6 |
| | Iron | mg.L$^{-1}$ | 1.3 |
| | Chromium (Total) | mg.L$^{-1}$ | 0.0062 |
| | Copper | mg.L$^{-1}$ | 0.0012 |

**MW25-23B**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 61.4462 |
| | Cresols (Total) | mg.L$^{-1}$ | 2.8 |
| | Naphthalene | mg.L$^{-1}$ | 2.3 |
| | Anthracene | mg.L$^{-1}$ | 0.022 |
| | Fluoranthene | mg.L$^{-1}$ | 0.013 |
| | Nickel | mg.L$^{-1}$ | 0.0044 |
| | Styrene | mg.L$^{-1}$ | 1.54 |
| 2 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 76.2244 |
| | Naphthalene | mg.L$^{-1}$ | 3.6 |
| | Anthracene | mg.L$^{-1}$ | 0.044 |
| | Fluoranthene | mg.L$^{-1}$ | 0.053 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.015 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.0084 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.017 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.0058 |
| | Copper | mg.L$^{-1}$ | 0.0019 |
| | Styrene | mg.L$^{-1}$ | 1 |
| 3 | Chloride | mg.L$^{-1}$ | 280 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 77.78 |
| | Cresols (Total) | mg.L$^{-1}$ | 4.3 |
| | Naphthalene | mg.L$^{-1}$ | 6.8 |
| | Anthracene | mg.L$^{-1}$ | 0.28 |
| | Fluoranthene | mg.L$^{-1}$ | 0.4 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.036 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.015 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.035 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.013 |
| | Copper | mg.L$^{-1}$ | 0.004 |
| | Styrene | mg.L$^{-1}$ | 2.27 |

**CBH124**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Sulphate | mg.L$^{-1}$ | 699 |
| | Chloride | mg.L$^{-1}$ | 330 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 32.6676 |
| | Cadmium | mg.L$^{-1}$ | 0.00073 |
| | Copper | mg.L$^{-1}$ | 0.0029 |
| | Nickel | mg.L$^{-1}$ | 0.0057 |
| | Zinc | mg.L$^{-1}$ | 0.0239 |
| 2 | Sulphate | mg.L$^{-1}$ | 693 |
| | Chloride | mg.L$^{-1}$ | 340 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 21.7784 |
| | Naphthalene | mg.L$^{-1}$ | 0.0034 |
| | Cadmium | mg.L$^{-1}$ | 0.00049 |
| | Copper | mg.L$^{-1}$ | 0.005 |
| | Nickel | mg.L$^{-1}$ | 0.005 |
| | Zinc | mg.L$^{-1}$ | 0.0248 |
| 3 | Sulphate | mg.L$^{-1}$ | 684 |
| | Chloride | mg.L$^{-1}$ | 340 |
| | Ammoniacal N (total) as N | mg.L$^{-1}$ | 16.3338 |
| | Cadmium | mg.L$^{-1}$ | 0.00053 |
| | Copper | mg.L$^{-1}$ | 0.0033 |
| | Nickel | mg.L$^{-1}$ | 0.0058 |
| | Zinc | mg.L$^{-1}$ | 0.014 |

**MW25-25**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 59.8906 |
| | Naphthalene | mg.L$^{-1}$ | 0.005 |
| | Anthracene | mg.L$^{-1}$ | 0.006 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0071 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00039 |
| | Copper | mg.L$^{-1}$ | 0.004 |
| 2 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 73.891 |
| | Naphthalene | mg.L$^{-1}$ | 1.2 |
| | Anthracene | mg.L$^{-1}$ | 0.069 |
| | Fluoranthene | mg.L$^{-1}$ | 0.14 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.04 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.022 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.041 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.019 |
| | Copper | mg.L$^{-1}$ | 0.0043 |
| | Nickel | mg.L$^{-1}$ | 0.0056 |
| 3 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 64.5574 |
| | Cresols (Total) | mg.L$^{-1}$ | 5.6 |
| | Naphthalene | mg.L$^{-1}$ | 0.22 |
| | Anthracene | mg.L$^{-1}$ | 0.013 |
| | Fluoranthene | mg.L$^{-1}$ | 0.02 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.0029 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.0017 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0034 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.0013 |
| | Copper | mg.L$^{-1}$ | 0.0031 |

**MW25-20**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 34.2232 |
| | Naphthalene | mg.L$^{-1}$ | 0.57 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0013 |
| | Iron | mg.L$^{-1}$ | 1.2 |
| | Copper | mg.L$^{-1}$ | 0.0016 |
| | Nickel | mg.L$^{-1}$ | 0.0064 |
| 2 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 35.7788 |
| | Cresols (Total) | mg.L$^{-1}$ | 2.3 |
| | Naphthalene | mg.L$^{-1}$ | 2.4 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0041 |
| | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.0011 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00052 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0011 |
| | Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00049 |
| | Copper | mg.L$^{-1}$ | 0.0049 |
| 3 | Ammoniacal N (total) as N | mg.L$^{-1}$ | 32.6676 |
| | Cresols (Total) | mg.L$^{-1}$ | 3.1 |
| | Naphthalene | mg.L$^{-1}$ | 1.1 |
| | Anthracene | mg.L$^{-1}$ | 0.001 |
| | Fluoranthene | mg.L$^{-1}$ | 0.0011 |
| | Copper | mg.L$^{-1}$ | 0.0016 |




**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- RBH3 Groundwater re-injection borehole
- DBH6 Groundwater elevation monitoring borehole
- DBH2 NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- CBH114 Cable Percussion Boreholes (2008)
- CBH113A Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- WS1 Window Samples (March 1999)
- U2 Boreholes (April 1999)
- TP23 Trial Pits (April 1999)

**Previous Site Investigation Locations**

- SHT8 Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- BH39, CT02 Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- MG2 Boreholes (May Gurney Site Investigation, 1992)

**Exceedance criteria:**

| Contaminant | Unit | Environmental Quality Standards for freshwater surface waters |
|---|---|---|
| pH | pH Units | 6-9 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.001 |
| Sulphate | mg.L$^{-1}$ | 400 |
| Chloride | mg.L$^{-1}$ | 250 |
| Ammoniacal N (total) as N | mg.L$^{-1}$ | 1.1 |
| Cresols (Total) | mg.L$^{-1}$ | 0.1 |
| Phenol | mg.L$^{-1}$ | 0.0077 |
| Naphthalene | mg.L$^{-1}$ | 0.002 |
| Anthracene | mg.L$^{-1}$ | 0.0001 |
| Fluoranthene | mg.L$^{-1}$ | 0.0000063 |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.000017 |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.000017 |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00000017 |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.0000082 |
| Iron | mg.L$^{-1}$ | 1 |
| Arsenic | mg.L$^{-1}$ | 0.05 |
| Cadmium | mg.L$^{-1}$ | <0.00008 |
| Chromium (Total) | mg.L$^{-1}$ | 0.0034 |
| Copper | mg.L$^{-1}$ | 0.001 |
| Lead | mg.L$^{-1}$ | 0.0012 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00007 |
| Nickel | mg.L$^{-1}$ | 0.004 |
| Zinc | mg.L$^{-1}$ | 0.0123 |
| Benzene | mg.L$^{-1}$ | 0.01 |
| Styrene | mg.L$^{-1}$ | 0.05 |

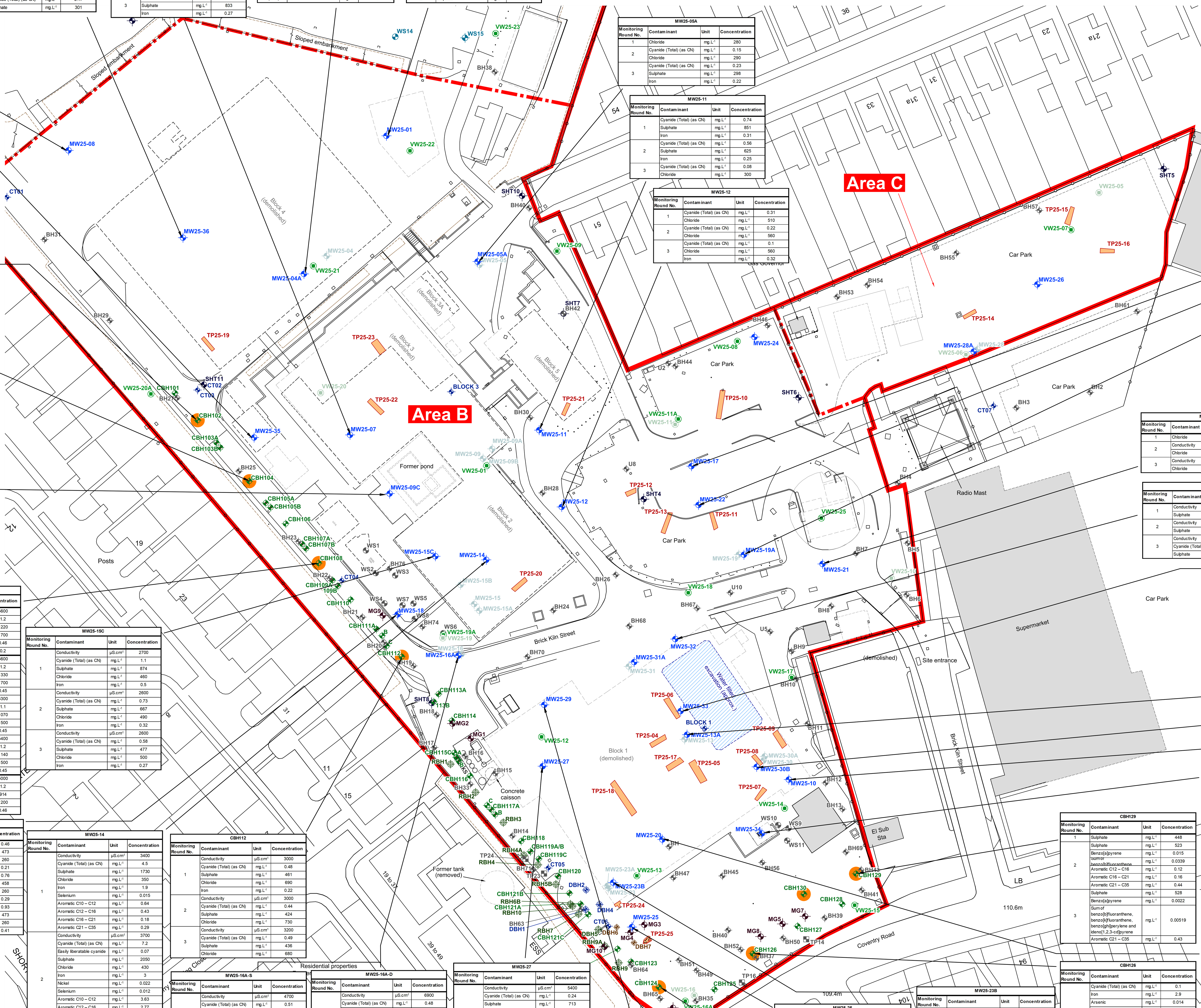
**Approximate Site Centre:** (442071, 293810)


**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
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Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/034-004/Rev A, 23/02/2000


| PROJECT: 00401 BRICK KILN STREET, HINCKLEY | CADENT GAS LIMITED |
|---|---|
| GROUNDWATER EXCEEDANCES (EQS) | worley consulting |

| DRAWN BY | STATUS | APPROVER | PAPER SIZE | DATE | SCALE | OFFICE | | | REV |
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| PM | DRAFT | - | A0 | JUN 2025 | 1:400 | LONDON | T +44 (0)117 925 1304 www.worley.com | FIGURE 14B | - |

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*




| MW25-36 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.34 |
| | Sulphate | mg.L$^{-1}$ | 364 |
| 1 (DUP) | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.41 |
| | Sulphate | mg.L$^{-1}$ | 282 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.29 |
| | Sulphate | mg.L$^{-1}$ | 343 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.17 |
| | Sulphate | mg.L$^{-1}$ | 301 |

| MW25-07 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.57 |
| | Sulphate | mg.L$^{-1}$ | 913 |
| | Iron | mg.L$^{-1}$ | 0.33 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.53 |
| | Sulphate | mg.L$^{-1}$ | 637 |
| | Iron | mg.L$^{-1}$ | 0.25 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.51 |
| | Sulphate | mg.L$^{-1}$ | 833 |
| | Iron | mg.L$^{-1}$ | 0.27 |

| MW25-04A | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Sulphate | mg.L$^{-1}$ | 338 |
| | Chloride | mg.L$^{-1}$ | 360 |
| 2 | Sulphate | mg.L$^{-1}$ | 326 |
| | Chloride | mg.L$^{-1}$ | 350 |
| 3 | Sulphate | mg.L$^{-1}$ | 310 |
| | Chloride | mg.L$^{-1}$ | 380 |
| 3 (DUP) | Iron | mg.L$^{-1}$ | 0.47 |

| MW25-01 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Sulphate | mg.L$^{-1}$ | 262 |
| 2 | Sulphate | mg.L$^{-1}$ | 252 |

| MW25-05A | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Chloride | mg.L$^{-1}$ | 280 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.15 |
| | Chloride | mg.L$^{-1}$ | 290 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.23 |
| | Sulphate | mg.L$^{-1}$ | 298 |
| | Iron | mg.L$^{-1}$ | 0.22 |

| MW25-11 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.74 |
| | Sulphate | mg.L$^{-1}$ | 851 |
| | Iron | mg.L$^{-1}$ | 0.31 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.56 |
| | Sulphate | mg.L$^{-1}$ | 625 |
| | Iron | mg.L$^{-1}$ | 0.25 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.08 |
| | Chloride | mg.L$^{-1}$ | 300 |

| MW25-12 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.31 |
| | Chloride | mg.L$^{-1}$ | 510 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.22 |
| | Chloride | mg.L$^{-1}$ | 560 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.1 |
| | Chloride | mg.L$^{-1}$ | 560 |
| | Iron | mg.L$^{-1}$ | 0.32 |

| MW25-17 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | pH | pH Units | 10.4 |
| | Conductivity | µS.cm$^{-1}$ | 7100 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 3.3 |
| | Sulphate | mg.L$^{-1}$ | 1630 |
| | Chloride | mg.L$^{-1}$ | 1900 |
| | Iron | mg.L$^{-1}$ | 1.7 |
| | Arsenic | mg.L$^{-1}$ | 0.059 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00106 |
| | Nickel | mg.L$^{-1}$ | 0.023 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 1.6 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.78 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.69 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 1.15 |
| 2 | pH | pH Units | 10.6 |
| | Conductivity | µS.cm$^{-1}$ | 6100 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 2.6 |
| | Sulphate | mg.L$^{-1}$ | 1520 |
| | Chloride | mg.L$^{-1}$ | 1800 |
| | Iron | mg.L$^{-1}$ | 1.2 |
| | Arsenic | mg.L$^{-1}$ | 0.046 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00199 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 1.65 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.78 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.64 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.91 |
| 3 | pH | pH Units | 10.7 |
| | Conductivity | µS.cm$^{-1}$ | 7200 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.73 |
| | Sulphate | mg.L$^{-1}$ | 2220 |
| | Chloride | mg.L$^{-1}$ | 1800 |
| | Iron | mg.L$^{-1}$ | 0.37 |
| | Arsenic | mg.L$^{-1}$ | 0.022 |
| | Mercury (inorganic) | mg.L$^{-1}$ | 0.00118 |
| | Benzene | mg.L$^{-1}$ | 0.022 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.67 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.34 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.29 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.27 |

| MW25-08 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Conductivity | µS.cm$^{-1}$ | 3300 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.79 |
| | Sulphate | mg.L$^{-1}$ | 1580 |
| | Chloride | mg.L$^{-1}$ | 330 |
| | Iron | mg.L$^{-1}$ | 1.6 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.39 |
| 2 | Conductivity | µS.cm$^{-1}$ | 3700 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.65 |
| | Sulphate | mg.L$^{-1}$ | 1530 |
| | Chloride | mg.L$^{-1}$ | 440 |
| | Iron | mg.L$^{-1}$ | 0.43 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.12 |
| 3 | Conductivity | µS.cm$^{-1}$ | 4500 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.4 |
| | Sulphate | mg.L$^{-1}$ | 1520 |
| | Chloride | mg.L$^{-1}$ | 540 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00045 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00127 |
| | Iron | mg.L$^{-1}$ | 0.29 |

| MW25-35 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.17 |
| | Sulphate | mg.L$^{-1}$ | 383 |
| | Chloride | mg.L$^{-1}$ | 610 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.29 |
| | Sulphate | mg.L$^{-1}$ | 367 |
| | Chloride | mg.L$^{-1}$ | 490 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.34 |
| | Sulphate | mg.L$^{-1}$ | 377 |
| | Chloride | mg.L$^{-1}$ | 490 |

| CBH102 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.45 |
| | Sulphate | mg.L$^{-1}$ | 547 |
| | Chloride | mg.L$^{-1}$ | 340 |
| | Iron | mg.L$^{-1}$ | 0.21 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.26 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.27 |
| | Iron | mg.L$^{-1}$ | 0.99 |

| CBH104 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Conductivity | µS.cm$^{-1}$ | 3800 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.23 |
| | Sulphate | mg.L$^{-1}$ | 690 |
| | Chloride | mg.L$^{-1}$ | 930 |
| 2 | Conductivity | µS.cm$^{-1}$ | 3600 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.21 |
| | Sulphate | mg.L$^{-1}$ | 594 |
| | Chloride | mg.L$^{-1}$ | 900 |
| | Iron | mg.L$^{-1}$ | 0.32 |
| 3 | Conductivity | µS.cm$^{-1}$ | 3800 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.22 |
| | Sulphate | mg.L$^{-1}$ | 605 |
| | Chloride | mg.L$^{-1}$ | 950 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00037 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00101 |
| | Iron | mg.L$^{-1}$ | 0.26 |

| MW25-09C | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.5 |
| | Sulphate | mg.L$^{-1}$ | 1280 |
| | Iron | mg.L$^{-1}$ | 0.63 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.29 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.34 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.21 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.24 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.4 |
| | Sulphate | mg.L$^{-1}$ | 1210 |
| | Iron | mg.L$^{-1}$ | 0.59 |
| | Arsenic | mg.L$^{-1}$ | 0.011 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.14 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.21 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.15 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.23 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.4 |
| | Sulphate | mg.L$^{-1}$ | 1130 |
| | Iron | mg.L$^{-1}$ | 0.57 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.75 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.74 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.33 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 1.03 |

| CBH108 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Conductivity | µS.cm$^{-1}$ | 5600 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.2 |
| | Sulphate | mg.L$^{-1}$ | 1220 |
| | Chloride | mg.L$^{-1}$ | 1700 |
| | Iron | mg.L$^{-1}$ | 0.46 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.2 |
| 1 (DUP) | Conductivity | µS.cm$^{-1}$ | 5600 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.2 |
| | Sulphate | mg.L$^{-1}$ | 1330 |
| | Chloride | mg.L$^{-1}$ | 1700 |
| | Iron | mg.L$^{-1}$ | 0.45 |
| 2 | Conductivity | µS.cm$^{-1}$ | 5300 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.1 |
| | Sulphate | mg.L$^{-1}$ | 1070 |
| | Chloride | mg.L$^{-1}$ | 1500 |
| | Iron | mg.L$^{-1}$ | 0.45 |
| 2 (DUP) | Conductivity | µS.cm$^{-1}$ | 5400 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.2 |
| | Sulphate | mg.L$^{-1}$ | 1140 |
| | Chloride | mg.L$^{-1}$ | 1500 |
| | Iron | mg.L$^{-1}$ | 0.45 |
| 3 | Conductivity | µS.cm$^{-1}$ | 5000 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.2 |
| | Sulphate | mg.L$^{-1}$ | 914 |
| | Chloride | mg.L$^{-1}$ | 1200 |
| | Iron | mg.L$^{-1}$ | 0.46 |

| MW25-15C | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Conductivity | µS.cm$^{-1}$ | 2700 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.1 |
| | Sulphate | mg.L$^{-1}$ | 874 |
| | Chloride | mg.L$^{-1}$ | 460 |
| | Iron | mg.L$^{-1}$ | 0.5 |
| 2 | Conductivity | µS.cm$^{-1}$ | 2600 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.73 |
| | Sulphate | mg.L$^{-1}$ | 667 |
| | Chloride | mg.L$^{-1}$ | 490 |
| | Iron | mg.L$^{-1}$ | 0.32 |
| 3 | Conductivity | µS.cm$^{-1}$ | 2600 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.58 |
| | Sulphate | mg.L$^{-1}$ | 477 |
| | Chloride | mg.L$^{-1}$ | 500 |
| | Iron | mg.L$^{-1}$ | 0.27 |

| MW25-18 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.46 |
| | Sulphate | mg.L$^{-1}$ | 473 |
| | Chloride | mg.L$^{-1}$ | 260 |
| | Iron | mg.L$^{-1}$ | 0.21 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.76 |
| | Sulphate | mg.L$^{-1}$ | 458 |
| | Chloride | mg.L$^{-1}$ | 260 |
| | Iron | mg.L$^{-1}$ | 0.29 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.93 |
| | Sulphate | mg.L$^{-1}$ | 473 |
| | Chloride | mg.L$^{-1}$ | 260 |
| | Iron | mg.L$^{-1}$ | 0.41 |

| MW25-14 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Conductivity | µS.cm$^{-1}$ | 3400 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 4.5 |
| | Sulphate | mg.L$^{-1}$ | 1730 |
| | Chloride | mg.L$^{-1}$ | 350 |
| | Iron | mg.L$^{-1}$ | 1.9 |
| | Selenium | mg.L$^{-1}$ | 0.015 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.64 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.43 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.18 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.29 |
| 2 | Conductivity | µS.cm$^{-1}$ | 3700 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 7.2 |
| | Easily liberatable cyanide | mg.L$^{-1}$ | 0.07 |
| | Sulphate | mg.L$^{-1}$ | 2050 |
| | Chloride | mg.L$^{-1}$ | 430 |
| | Iron | mg.L$^{-1}$ | 3 |
| | Nickel | mg.L$^{-1}$ | 0.022 |
| | Selenium | mg.L$^{-1}$ | 0.012 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 3.63 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 2.77 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.08 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.99 |
| 3 | Conductivity | µS.cm$^{-1}$ | 3400 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 4.6 |
| | Sulphate | mg.L$^{-1}$ | 1920 |
| | Chloride | mg.L$^{-1}$ | 340 |
| | Iron | mg.L$^{-1}$ | 2.1 |
| | Arsenic | mg.L$^{-1}$ | 0.012 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 1.21 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.89 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.4 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.36 |

| CBH112 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Conductivity | µS.cm$^{-1}$ | 3000 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.48 |
| | Sulphate | mg.L$^{-1}$ | 461 |
| | Chloride | mg.L$^{-1}$ | 690 |
| | Iron | mg.L$^{-1}$ | 0.22 |
| 2 | Conductivity | µS.cm$^{-1}$ | 3000 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.44 |
| | Sulphate | mg.L$^{-1}$ | 424 |
| | Chloride | mg.L$^{-1}$ | 730 |
| 3 | Conductivity | µS.cm$^{-1}$ | 3200 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.49 |
| | Sulphate | mg.L$^{-1}$ | 436 |
| | Chloride | mg.L$^{-1}$ | 680 |

| MW25-16A-S | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Conductivity | µS.cm$^{-1}$ | 4700 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.51 |
| | Sulphate | mg.L$^{-1}$ | 445 |
| | Chloride | mg.L$^{-1}$ | 1400 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.27 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.65 |
| | Iron | mg.L$^{-1}$ | 1 |
| | Arsenic | mg.L$^{-1}$ | 0.018 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 25 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 11.1 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 6.69 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 8 |
| 2 | Conductivity | µS.cm$^{-1}$ | 4100 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.75 |
| | Sulphate | mg.L$^{-1}$ | 298 |
| | Chloride | mg.L$^{-1}$ | 1300 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0066 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.015 |
| | Iron | mg.L$^{-1}$ | 0.41 |
| | Arsenic | mg.L$^{-1}$ | 0.042 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 16.4 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 5.46 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.19 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.7 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.58 |
| | Sulphate | mg.L$^{-1}$ | 272 |
| | Iron | mg.L$^{-1}$ | 0.52 |
| | Arsenic | mg.L$^{-1}$ | 0.064 |

| MW25-16A-D | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Conductivity | µS.cm$^{-1}$ | 6900 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.48 |
| | Chloride | mg.L$^{-1}$ | 1900 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0036 |
| | Iron | mg.L$^{-1}$ | 0.37 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 20.9 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 5.82 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.63 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 1.28 |
| 2 | Conductivity | µS.cm$^{-1}$ | 6200 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.43 |
| | Chloride | mg.L$^{-1}$ | 1800 |
| | Iron | mg.L$^{-1}$ | 0.25 |
| | Arsenic | mg.L$^{-1}$ | 0.013 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 14 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 3.85 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.02 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.7 |
| 3 | Conductivity | µS.cm$^{-1}$ | 6000 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.46 |
| | Chloride | mg.L$^{-1}$ | 1800 |
| | Iron | mg.L$^{-1}$ | 0.33 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 8.06 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 2.21 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.57 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.16 |

| MW25-27 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Conductivity | µS.cm$^{-1}$ | 5400 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.24 |
| | Sulphate | mg.L$^{-1}$ | 713 |
| | Chloride | mg.L$^{-1}$ | 700 |
| | Iron | mg.L$^{-1}$ | 2.4 |
| | Arsenic | mg.L$^{-1}$ | 0.012 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 139 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 23.9 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.74 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 2.36 |
| 2 | Conductivity | µS.cm$^{-1}$ | 5100 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.23 |
| | Sulphate | mg.L$^{-1}$ | 601 |
| | Chloride | mg.L$^{-1}$ | 680 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00085 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00221 |
| | Iron | mg.L$^{-1}$ | 1.8 |
| | Aliphatic C10 – C12 | mg.L$^{-1}$ | 2.08 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 110 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 22.8 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.85 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 1.35 |
| 3 | Conductivity | µS.cm$^{-1}$ | 4900 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.26 |
| | Sulphate | mg.L$^{-1}$ | 580 |
| | Chloride | mg.L$^{-1}$ | 580 |
| | Iron | mg.L$^{-1}$ | 1.3 |
| | Aliphatic C10 – C12 | mg.L$^{-1}$ | 3.11 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 156 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 33.7 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.25 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 1.33 |

| MW25-29 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.17 |
| | Sulphate | mg.L$^{-1}$ | 306 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 4.94 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 4.78 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.19 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.54 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.19 |
| | Sulphate | mg.L$^{-1}$ | 380 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 4.13 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 3.71 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.21 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.62 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.2 |
| | Sulphate | mg.L$^{-1}$ | 328 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 2.85 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 2.63 |

| CBH124 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Sulphate | mg.L$^{-1}$ | 699 |
| | Chloride | mg.L$^{-1}$ | 330 |
| 2 | Sulphate | mg.L$^{-1}$ | 693 |
| | Chloride | mg.L$^{-1}$ | 340 |
| 3 | Sulphate | mg.L$^{-1}$ | 684 |
| | Chloride | mg.L$^{-1}$ | 340 |

| MW25-25 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.19 |
| | Iron | mg.L$^{-1}$ | 0.73 |
| | Arsenic | mg.L$^{-1}$ | 0.014 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 1.88 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 1.63 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.74 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.83 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.18 |
| | Sulphate | mg.L$^{-1}$ | 262 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.041 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.1 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 6.76 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 3.08 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 2.25 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 2.16 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.25 |
| | Sulphate | mg.L$^{-1}$ | 274 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0034 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.0077 |
| | Arsenic | mg.L$^{-1}$ | 0.014 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 2.93 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 1.65 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.76 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.29 |

| MW25-23B | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.12 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 22.2 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 12.8 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 3.52 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 1.09 |
| | Styrene | mg.L$^{-1}$ | 1.54 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.1 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.017 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.0378 |
| | Iron | mg.L$^{-1}$ | 0.58 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 28.4 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 13 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 3.57 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.82 |
| | Styrene | mg.L$^{-1}$ | 1 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.1 |
| | Chloride | mg.L$^{-1}$ | 280 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.035 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.075 |
| | Arsenic | mg.L$^{-1}$ | 0.012 |
| | Aliphatic C10 – C12 | mg.L$^{-1}$ | 1.32 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 55.5 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 23.5 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 9.17 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 5.19 |
| | Styrene | mg.L$^{-1}$ | 2.27 |

| CBH129 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Sulphate | mg.L$^{-1}$ | 448 |
| 2 | Sulphate | mg.L$^{-1}$ | 523 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.015 |
| | Sum of benzo[b]fluoranthene | mg.L$^{-1}$ | 0.0339 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.12 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.16 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.44 |
| 3 | Sulphate | mg.L$^{-1}$ | 528 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0022 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00519 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.43 |

| CBH126 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.1 |
| | Iron | mg.L$^{-1}$ | 2.9 |
| | Arsenic | mg.L$^{-1}$ | 0.014 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 9.63 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 3.59 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.61 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.37 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.1 |
| | Iron | mg.L$^{-1}$ | 1.1 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 11.5 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 2.77 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.52 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.41 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.12 |
| | Iron | mg.L$^{-1}$ | 0.34 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 6.54 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 1.55 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.29 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.38 |

| MW25-34 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.06 |
| | Arsenic | mg.L$^{-1}$ | 0.013 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 1.41 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.38 |
| 2 | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.38 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.25 |
| 3 | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.1 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.14 |

| MW25-20 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.07 |
| | Sulphate | mg.L$^{-1}$ | 322 |
| | Iron | mg.L$^{-1}$ | 1.2 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 8.12 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 3.89 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.47 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.61 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.08 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0011 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00264 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 13 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 5.77 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.01 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.5 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.09 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 16.7 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 9.26 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 1.26 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.43 |

| MW25-10 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | pH | pH Units | 9.9 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 7.9 |
| | Sulphate | mg.L$^{-1}$ | 568 |
| | Chloride | mg.L$^{-1}$ | 350 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00043 |
| | Iron | mg.L$^{-1}$ | 4.4 |
| | Arsenic | mg.L$^{-1}$ | 0.07 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 3.1 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 1.16 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.3 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.6 |
| | Styrene | mg.L$^{-1}$ | 0.052 |
| 2 | pH | pH Units | 10.1 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 8.6 |
| | Sulphate | mg.L$^{-1}$ | 439 |
| | Chloride | mg.L$^{-1}$ | 350 |
| | Iron | mg.L$^{-1}$ | 3.2 |
| | Arsenic | mg.L$^{-1}$ | 0.079 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 3.45 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 1.14 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.32 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.29 |
| | Styrene | mg.L$^{-1}$ | 0.114 |
| 3 | pH | pH Units | 10.2 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 3.9 |
| | Sulphate | mg.L$^{-1}$ | 423 |
| | Chloride | mg.L$^{-1}$ | 330 |
| | Iron | mg.L$^{-1}$ | 2.9 |
| | Arsenic | mg.L$^{-1}$ | 0.088 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 4.23 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 1.11 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.33 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.49 |
| | Styrene | mg.L$^{-1}$ | 0.297 |

| MW25-30B | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | pH | pH Units | 9.6 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 4.3 |
| | Sulphate | mg.L$^{-1}$ | 583 |
| | Iron | mg.L$^{-1}$ | 2 |
| | Arsenic | mg.L$^{-1}$ | 0.029 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 2.02 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.93 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.18 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.22 |
| 2 | pH | pH Units | 10.1 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 3.2 |
| | Sulphate | mg.L$^{-1}$ | 494 |
| | Iron | mg.L$^{-1}$ | 1.2 |
| | Arsenic | mg.L$^{-1}$ | 0.048 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 5.46 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 1.48 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.38 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.71 |
| 3 | pH | pH Units | 10.2 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 2.6 |
| | Sulphate | mg.L$^{-1}$ | 450 |
| | Iron | mg.L$^{-1}$ | 1.2 |
| | Arsenic | mg.L$^{-1}$ | 0.052 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 4.13 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 1 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.21 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.34 |

| MW25-22 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | pH | pH Units | 11.2 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.4 |
| | Sulphate | mg.L$^{-1}$ | 435 |
| | Chloride | mg.L$^{-1}$ | 330 |
| | Iron | mg.L$^{-1}$ | 0.69 |
| | Arsenic | mg.L$^{-1}$ | 0.027 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 1.03 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.55 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.39 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.4 |
| 2 | pH | pH Units | 11.5 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 2.1 |
| | Sulphate | mg.L$^{-1}$ | 468 |
| | Chloride | mg.L$^{-1}$ | 310 |
| | Iron | mg.L$^{-1}$ | 0.72 |
| | Arsenic | mg.L$^{-1}$ | 0.025 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.85 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.43 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.33 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.28 |
| 3 | pH | pH Units | 11.4 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 1.3 |
| | Sulphate | mg.L$^{-1}$ | 588 |
| | Chloride | mg.L$^{-1}$ | 300 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00027 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00123 |
| | Iron | mg.L$^{-1}$ | 0.54 |
| | Arsenic | mg.L$^{-1}$ | 0.021 |
| | Benzene | mg.L$^{-1}$ | 0.028 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.71 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.35 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.26 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.25 |

| MW25-19A | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Chloride | mg.L$^{-1}$ | 470 |
| 2 | Chloride | mg.L$^{-1}$ | 460 |
| 3 | Chloride | mg.L$^{-1}$ | 560 |

| MW25-21 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Chloride | mg.L$^{-1}$ | 750 |
| 2 | Conductivity | µS.cm$^{-1}$ | 3000 |
| | Chloride | mg.L$^{-1}$ | 1000 |
| 3 | Conductivity | µS.cm$^{-1}$ | 3300 |
| | Chloride | mg.L$^{-1}$ | 930 |

| MW25-32 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Conductivity | µS.cm$^{-1}$ | 2800 |
| | Sulphate | mg.L$^{-1}$ | 1560 |
| 2 | Conductivity | µS.cm$^{-1}$ | 3600 |
| | Sulphate | mg.L$^{-1}$ | 1870 |
| 3 | Conductivity | µS.cm$^{-1}$ | 2900 |
| | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.06 |
| | Sulphate | mg.L$^{-1}$ | 1240 |

| MW25-33 | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.66 |
| | Sulphate | mg.L$^{-1}$ | 378 |
| | Iron | mg.L$^{-1}$ | 1.3 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 1.65 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 2.31 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.45 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.66 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.79 |
| | Sulphate | mg.L$^{-1}$ | 480 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0079 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.018 |
| | Iron | mg.L$^{-1}$ | 0.36 |
| | Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.51 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 2.49 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 4.08 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 2.37 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 2.77 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.48 |
| | Sulphate | mg.L$^{-1}$ | 433 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.0048 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.0124 |
| | Iron | mg.L$^{-1}$ | 0.35 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.26 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.58 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.36 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.54 |

| MW25-13A | | | |
|---|---|---|---|
| Monitoring Round No. | Contaminant | Unit | Concentration |
| 1 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.36 |
| | Sulphate | mg.L$^{-1}$ | 446 |
| | Iron | mg.L$^{-1}$ | 0.25 |
| | Arsenic | mg.L$^{-1}$ | 0.011 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.26 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.46 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.21 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.36 |
| 2 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.44 |
| | Sulphate | mg.L$^{-1}$ | 474 |
| | Benzo[a]pyrene | mg.L$^{-1}$ | 0.00067 |
| | Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00132 |
| | Iron | mg.L$^{-1}$ | 1.9 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.45 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.62 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.18 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.25 |
| 3 | Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.37 |
| | Sulphate | mg.L$^{-1}$ | 478 |
| | Arsenic | mg.L$^{-1}$ | 0.012 |
| | Aromatic C10 – C12 | mg.L$^{-1}$ | 0.2 |
| | Aromatic C12 – C16 | mg.L$^{-1}$ | 0.38 |
| | Aromatic C16 – C21 | mg.L$^{-1}$ | 0.2 |
| | Aromatic C21 – C35 | mg.L$^{-1}$ | 0.34 |

**Exceedance criteria:**

| Contaminant | Unit | Combined Drinking Water Screening values |
|---|---|---|
| pH | pH Units | 6.5<9.5 |
| Conductivity | µS.cm$^{-1}$ | 2500 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.05 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.05 |
| Sulphate | mg.L$^{-1}$ | 250 |
| Chloride | mg.L$^{-1}$ | 250 |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.0001 |
| Iron | mg.L$^{-1}$ | 0.2 |
| Arsenic | mg.L$^{-1}$ | 0.01 |
| Nickel | mg.L$^{-1}$ | 0.02 |
| Selenium | mg.L$^{-1}$ | 0.01 |
| Benzene | mg.L$^{-1}$ | 0.001 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.3 |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.09 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.09 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.09 |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.09 |
| Carbontetrachloride | mg.L$^{-1}$ | 0.003 |
| Styrene | mg.L$^{-1}$ | 0.02 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Rotary borehole
- Existing well sampled
- Vapour well (shallow)
- Trial pit
- Trial pit (shallow soils)

**Groundwater Remediation (Celtic 2019)**

- RBH3 Groundwater re-injection borehole
- DBH6 Groundwater elevation monitoring borehole
- DBH2 NAPL recovery borehole

**Previous Site Investigation Locations (Wood, 2019)**

- Window sample (GW monitoring)
- Window sample (Vapour/gas monitoring)
- Window sample (backfilled)

**Previous Site Investigation Locations (Celtic Technologies)**

- CBH114 Cable Percussion Boreholes (2008)
- CBH113A Cable Percussion Boreholes and CPT - LIF/MIP Probe Holes (2008)
- Mains Water Samples (January 2005)
- WS1 Window Samples (March 1999)
- U2 Boreholes (April 1999)
- TP23 Trial Pits (April 1999)

**Previous Site Investigation Locations**

- SHT8 Boreholes (Simon Hydrotechnica Hydrogeological Assessment,1993)
- BH39, CT02 Boreholes (British Gas Site Investigation, 1993) (from Celtic 2008 plan)
- MG2 Boreholes (May Gurney Site Investigation, 1992)

**Approximate Site Centre:** (442071, 293810)


**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3522/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D440M/A/2495/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D440M/A/2201- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D440M/99/905D & 905A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/034-004/Rev A, 23/02/2000


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GROUNDWATER EXCEEDANCES (DWS)

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FIGURE 15

REV -

**Note:** Locations and features shown are overlaid from relevant historical maps, site plans and reports (see report text for details). *All locations shown are approximate and are to be used for indicative purposes only.*

N

**SW25-01**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Iron | mg.L$^{-1}$ | 1.7 |
| 2 | Copper | mg.L$^{-1}$ | 0.0018 |
| 3 | Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00006 |
| | Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00007 |
| | Copper | mg.L$^{-1}$ | 0.0026 |

**SW25-02**

| Monitoring Round No. | Contaminant | Unit | Concentration |
|---|---|---|---|
| 1 | Copper | mg.L$^{-1}$ | 0.0014 |
| 2 | Copper | mg.L$^{-1}$ | 0.0031 |
| 3 | Copper | mg.L$^{-1}$ | 0.0033 |




**Screening criteria:**

| Contaminant | Unit | Environmental Quality Standards for freshwater surface waters |
|---|---|---|
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.000017 |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.000017 |
| Iron | mg.L$^{-1}$ | 1 |
| Copper | mg.L$^{-1}$ | 0.001 |

**Legend**

- Cadent Gas depot boundary (approximate)
- Cadent Gas internal areas boundary
- Current structures
- Concrete foundations of demolished structures

**Worley Consulting Site Investigation Locations (2025)**

- Surface water sample

**Approximate Site Centre:** (442071, 293810)

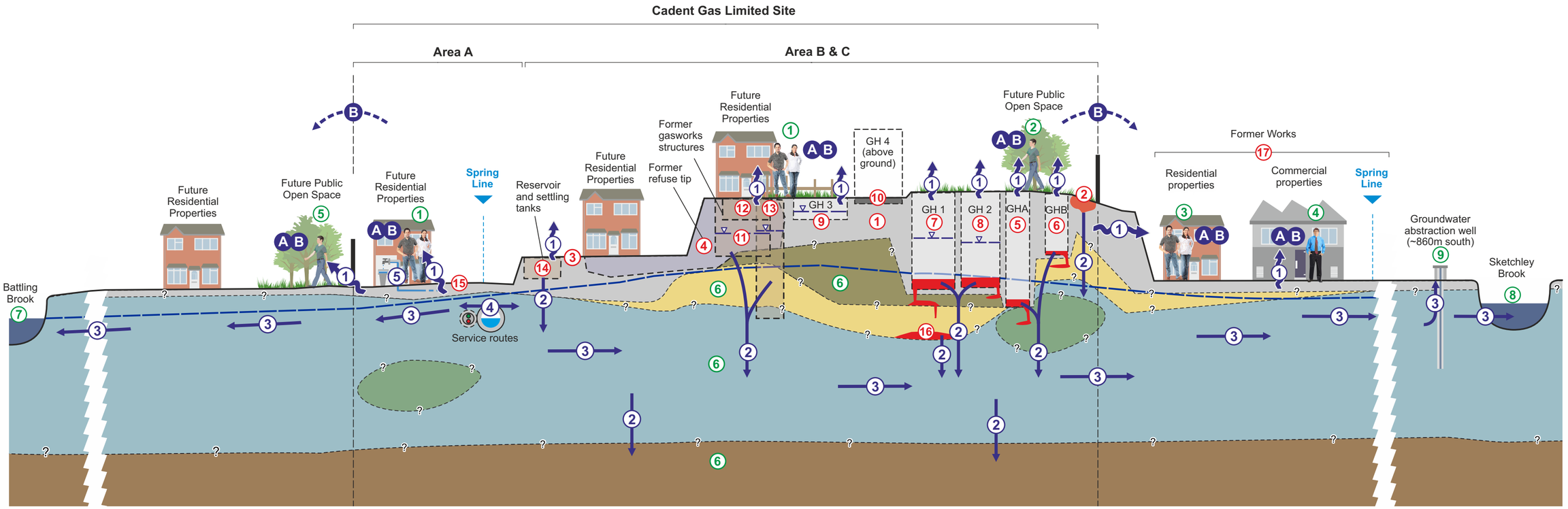
**References:**
Malcolm Hughes Surveys, Site Investigation Locations, ref. 62725/1, 10/03/2025
Target Designs Drainage Layout, ref. 152/127-001 rev. E, October 2006
Celtic Technologies Ltd, Historical Layout and Exploratory Locations, ref. D1191/3522/B2, 23/06/08
Celtic Technologies Ltd, Drawing No. D440M/A/2495/A2- Site Layout, January 2005
Celtic Technologies Ltd, Drawing No. D440M/A/2201- Historical Summary, April 2003
Celtic Technologies Ltd, Drawing No. D440M/99/905D & 905A- Exploratory Holes/Borehole Locations, March-April 1999
Basemap derived from Target Designs Site Plan Showing All Services, ref. 141/034-004/Rev A, 23/02/2000

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|---|---|
| SURFACE WATER EXCEEDANCES (EQS) | worley consulting |

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|---|---|---|---|---|---|---|---|---|---|
| PM | DRAFT | - | A0 | JUN 2025 | 1:1000 | LONDON | | | - |

North

South




## Legend

- Made ground
- Boulder Clay
- Wolston Sand and Gravel)
- Wolston Clay Member (Clay)
- Wolston Clay Member (Silt)
- Mercia Mudstone Formation
- Perched water level
- Inferred groundwater level (June 2025)
- Free product noted in the form of globules or pockets of tar
- Contaminant pathways

## Sources

1. General Made Ground in Area B (not including hotspots of free product), including areas of former predominantly above ground features
2. Hotspots of free-phase product within made ground west of former Blocks 1,2 & 3 (including vicinity of cast iron square tar tank)
3. Asbestos in soils
4. Former refuse tip, and infilled gravel pit
5. Infilled Gasholder A - sub-surface structure
6. Infilled Gasholder B - sub-surface structure
7. Infilled Gasholder 1 - sub-surface structure, including perched waters
8. Infilled Gasholder 2 - sub-surface structure, including perched waters
9. Infilled Gasholder 3 - sub-surface structure, including perched waters
10. Made Ground within Area C (including Gasholder 4 - above ground structure)
11. Purifiers in Area B
12. Scrubbers and Condensers in Area B
13. Former brick structures with timber base in Area B
14. Reservoir and settling tanks in Area B
15. Made Ground within Area A (former coke tip)
16. NAPL and contaminated groundwater (dissolved phase) in Sand and Gravels
17. Offsite sources (Former Dye Works/ Hosiery Factory, Printing & Packaging Works)

## Pathways (Migration)

1. Migration of vapour/gas
2. Leaching/dissolution from impacted soil/NAPL
3. Migration in groundwater
4. Migration via service routes (site drainage/sewers)
5. Diffusion through drinking water pipes

## Pathways (Exposure)

- A Direct contact (dermal, ingestion, vapour/gas inhalation)
- B Inhalation/direct contact via offsite migration (groundwater, wind-blown)

## Receptors

1. Future site users – residential with private gardens (allowing for ingestion of vegetables)
2. Future site users – public open space (attenuation ponds and landscaped areas)
3. Off-site residential properties (surrounding the site)
4. Off-site commercial workers (primarily to the southeast)
5. Off-site public open space (park) users (Clarendon Park in the northeast and Granville Road Park in the south)
6. Groundwater (principally the Secondary A Aquifer associated with the Wolston Sand & Gravel Member, and the Secondary B Aquifer associated with the Oadby Member and Mercia Mudstone Formation)
7. Surface Water: Battling Brook
   Surface Water: Sketchley Brook
8. Groundwater extraction well - located approximately 860 m south of site for general farming and domestic use
9. 

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| | |
|---|---|
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| CONCEPTUAL SITE MODEL | worley consulting |

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|---|---|---|---|---|---|---|---|---|---|
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Q:\Hinckley Cadent 004

# APPENDED TABLES

| NUMBER OF SAMPLES: | 19 | | | | | | | | | Sample Location | HP25-01 | HP25-02 | HP25-03 | HP25-04 | MW25-02 | MW25-02 | MW25-03 | MW25-06 | TP25-01 | TP25-03 | VW25-02 | VW25-02 | VW25-03 | VW25-04 | VW25-04 | VW25-23 | VW25-23 | VW25-24 | VW25-24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Depth (m bgl) | 0.30 | 0.30 | 0.20 | 0.25 | 0.25 | 0.50 | 0.30 | 0.20 | 0.30 | 0.40 | 0.20 | 0.60 | 0.25 | 0.30 | 0.65 | 0.01 | 0.25 | 0.15 | 0.50 |
| | | | | | | | | | | Date Sampled | 13/02/2025 | 13/02/2025 | 21/02/2025 | 21/02/2025 | 03/02/2025 | 03/02/2025 | 03/02/2025 | 05/02/2025 | 03/02/2025 | 03/02/2025 | 10/02/2025 | 10/02/2025 | 10/02/2025 | 10/02/2025 | 10/02/2025 | 20/02/2025 | 20/02/2025 | 20/02/2025 | 20/02/2025 |
| | | | CRITERIA 1 | | CRITERIA 1 | | | | | Stratum | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | Tarmac | MGR | MGR | MGR |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Residential (with veg uptake C4SL)** | **No. Analyses** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** | | | | | | | | | | | | | | | | | | | | |
| Stone Content | % | 0.1 | | 19 | | <0.1 | <20.5 | 61.8 | VW25-23 | | <0.1 | <0.1 | <0.1 | <0.1 | 46.90 | <0.1 | 40.40 | 45.20 | 55.60 | 37.70 | 34.90 | 36.10 | <0.1 | <0.1 | 29.00 | <0.1 | 61.80 | <0.1 | <0.1 |
| Moisture Content | % | 0.01 | | 19 | | 2 | 13.36 | 26 | VW25-24 | | 21.00 | 25.00 | 18.00 | 17.00 | 7.40 | 14.00 | 11.00 | 5.80 | 5.50 | 12.00 | 18.00 | 17.00 | 9.30 | 11.00 | 10.00 | 2.00 | 9.80 | 26.00 | 14.00 |
| Total mass of sample received | kg | 0.1 | | 19 | | 0.1 | 0.7 | 0.8 | MW25-02 | | 0.60 | 0.60 | 0.10 | 0.10 | 0.80 | 0.80 | 0.80 | 0.80 | 0.60 | 0.60 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.70 | 0.80 | 0.60 | 0.70 |
| Asbestos in Soil | Detect | N/A | | 12 | | 0 | 0 | <0 | n/a | | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected | - | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected | - | Not-detected | - | - | - | - | Not-detected | - |
| pH | pH Units | N/A | | 16 | | 7.1 | 8.8 | 11.9 | VW25-03 | | 7.90 | 7.30 | | | 11.50 | 7.80 | 8.90 | 8.70 | 8.40 | 9.50 | 7.80 | 7.90 | 11.90 | 8.80 | 8.00 | | 11.10 | 7.10 | 7.90 |
| Sulphide | mg.kg$^{-1}$ | 1 | | 18 | | <1 | <5 | 22 | TP25-03 | | 1.0 | <1 | <1 | 4.00 | 12.00 | 5.80 | <1 | 2.60 | 3.10 | 22.00 | 2.20 | 1.70 | 1.40 | 17.00 | 5.40 | | 4.70 | <1 | 2.30 |
| Organic Matter | % | 0.1 | | 18 | | 0.4 | 2.3 | 6.3 | VW25-24 | | 3.90 | 5.20 | 4.80 | 3.10 | 1.0 | 0.70 | 1.0 | 0.60 | 1.0 | 1.30 | 5.60 | 2.60 | 0.40 | 0.90 | 0.80 | | 0.80 | 6.30 | 1.0 |
| Total Organic Carbon (TOC) | % | 0.1 | | 4 | | 0.5 | 0.8 | 1.5 | VW25-02 | | | | | | | | | | | | | 1.50 | | 0.50 | | | 0.50 | | 0.60 |
| Cyanide (Total) (as CN) | mg.kg$^{-1}$ | 1 | | 18 | | <1 | <1 | <1 | n/a | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | | <1 | <1 | <1 |
| Complexed cyanide | mg.kg$^{-1}$ | 1 | 1116.3 | 18 | 0 | <1 | <1 | <1 | n/a | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | | <1 | <1 | <1 |
| Easily liberatable cyanide | mg.kg$^{-1}$ | 1 | 1.44 | 18 | 0 | <1 | <1 | <1 | n/a | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | | <1 | <1 | <1 |
| Thiocyanate | mg.kg$^{-1}$ | 5 | | 18 | | <5 | <6.2 | 26 | VW25-24 | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | | <5 | 26.00 | <5 |
| Water Soluble SO4 16hr extraction (2:1) | mg.kg$^{-1}$ | 2.5 | | 16 | | 33 | 125.6 | 440 | VW25-04 | | 47.00 | 85.00 | | | 200.00 | 120.00 | 57.00 | 54.00 | 69.00 | 240.00 | 33.00 | 52.00 | 39.00 | 440.00 | 64.00 | | 190.00 | 210.00 | 110.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg.l$^{-1}$ | 1.25 | | 16 | | 16.3 | 62.72 | 219 | VW25-04 | | 23.70 | 42.50 | | | 99.90 | 59.90 | 28.50 | 27.10 | 34.60 | 121.00 | 16.30 | 25.90 | 19.30 | 219.00 | 31.80 | | 95.70 | 104.00 | 54.30 |
| Chloride | mg.kg$^{-1}$ | 1 | | 18 | | 2.6 | 29.7 | 150 | MW25-02 | | 9.60 | 10.00 | 6.90 | 2.60 | 150.00 | 59.00 | 6.30 | 9.30 | 13.00 | 37.00 | 3.10 | 2.90 | 42.00 | 39.00 | 35.00 | | 41.00 | 37.00 | 30.00 |
| Sulphur (Elemental) | mg.kg$^{-1}$ | 5 | | 18 | | <5 | <16.4 | 70 | VW25-04 | | <5 | <5 | <5 | <5 | 37.00 | 32.00 | <5 | <5 | 19.00 | 25.00 | 8.70 | 7.90 | <5 | 19.00 | 70.00 | | 19.00 | 13.00 | 10.00 |
| Ammonium as NH4 | mg.kg$^{-1}$ | 0.5 | | 18 | | <0.5 | <7 | 82 | VW25-24 | | <0.5 | <0.5 | <0.5 | <0.5 | 3.10 | 16.00 | <0.5 | <0.5 | 3.80 | 8.50 | <0.5 | <0.5 | <0.5 | 1.60 | 5.90 | | <0.5 | 82.00 | <0.5 |
| Loss on Ignition | % | 0.2 | | 18 | | 0.6 | 3.8 | 8 | VW25-24 | | 5.10 | 7.00 | 6.10 | 4.60 | 2.70 | 2.70 | 2.30 | 0.60 | 1.70 | 3.90 | 6.60 | 4.40 | 1.30 | 1.50 | 1.80 | | 5.60 | 8.00 | 1.90 |
| Catechol | mg.kg$^{-1}$ | 0.1 | | 18 | | <0.1 | <0.1 | <0.1 | n/a | | <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 |
| Resorcinol | mg.kg$^{-1}$ | 0.1 | | 18 | | <0.1 | <0.1 | <0.1 | n/a | | <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 |
| Cresols (Total) | mg.kg$^{-1}$ | 0.3 | | 18 | | <0.3 | <0.3 | <0.3 | n/a | | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | | <0.3 | <0.3 | <0.3 |
| Naphthols | mg.kg$^{-1}$ | 0.2 | | 18 | | <0.2 | <0.2 | <0.2 | n/a | | <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 | | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | mg.kg$^{-1}$ | 0.1 | | 18 | | <0.1 | <0.1 | <0.1 | n/a | | <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 |
| Phenol | mg.kg$^{-1}$ | 0.1 | 280 | 18 | 0 | <0.1 | <0.1 | <0.1 | n/a | | <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 |
| Trimethylphenol (2,3,5-) | mg.kg$^{-1}$ | 0.1 | | 18 | | <0.1 | <0.1 | <0.1 | n/a | | <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 |
| Phenols (Total) | mg.kg$^{-1}$ | 1.4 | | 18 | | <1.4 | <1.4 | <1.4 | n/a | | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | mg.kg$^{-1}$ | 0.4 | | 18 | | <0.4 | <0.4 | <0.4 | n/a | | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | | <0.4 | <0.4 | <0.4 |
| Naphthalene | mg.kg$^{-1}$ | 0.05 | 15 | 19 | 0 | <0.05 | <0.1 | 0.29 | VW25-02 | | <0.05 | <0.05 | 0.060 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | 0.27 | 0.29 | 0.11 | 0.17 | 0.13 | <0.05 | 0.23 | <0.05 | 0.060 |
| Acenaphthylene | mg.kg$^{-1}$ | 0.05 | 170 | 19 | 0 | <0.05 | <0.05 | <0.05 | n/a | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthene | mg.kg$^{-1}$ | 0.05 | 210 | 19 | 0 | <0.05 | <0.06 | 0.14 | MW25-03 | | <0.05 | 0.060 | <0.05 | <0.05 | <0.05 | <0.05 | 0.14 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluorene | mg.kg$^{-1}$ | 0.05 | 170 | 19 | 0 | <0.05 | <0.05 | 0.11 | MW25-03 | | <0.05 | 0.070 | <0.05 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Phenanthrene | mg.kg$^{-1}$ | 0.05 | 95 | 19 | 0 | <0.05 | <0.24 | 1.7 | HP25-02 | | 0.050 | 1.70 | 0.060 | 0.13 | <0.05 | <0.05 | 0.99 | <0.05 | 0.070 | <0.05 | 0.060 | 0.080 | <0.05 | 0.13 | <0.05 | 0.48 | 0.20 | 0.23 | 0.060 |
| Anthracene | mg.kg$^{-1}$ | 0.05 | 2400 | 19 | 0 | <0.05 | <0.07 | 0.3 | HP25-02 | | <0.05 | 0.30 | <0.05 | <0.05 | <0.05 | <0.05 | 0.20 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluoranthene | mg.kg$^{-1}$ | 0.05 | 280 | 19 | 0 | <0.05 | <0.38 | 2.4 | HP25-02 | | 0.070 | 2.40 | 0.13 | 0.57 | <0.05 | <0.05 | 1.20 | <0.05 | 0.17 | <0.05 | 0.10 | 0.15 | <0.05 | 0.44 | 0.10 | 0.71 | 0.26 | 0.56 | 0.090 |
| Pyrene | mg.kg$^{-1}$ | 0.05 | 620 | 19 | 0 | <0.05 | <0.34 | 1.9 | HP25-02 | | 0.070 | 1.90 | 0.12 | 0.49 | <0.05 | <0.05 | 1.10 | <0.05 | 0.17 | <0.05 | 0.10 | 0.14 | <0.05 | 0.46 | <0.05 | 0.77 | 0.24 | 0.51 | 0.070 |
| Benzo[a]anthracene | mg.kg$^{-1}$ | 0.05 | | 19 | | <0.05 | <0.15 | 0.71 | HP25-02 | | <0.05 | 0.71 | 0.070 | 0.19 | <0.05 | <0.05 | 0.50 | <0.05 | 0.080 | <0.05 | <0.05 | 0.080 | <0.05 | 0.28 | <0.05 | <0.05 | 0.18 | 0.26 | <0.05 |
| Chrysene | mg.kg$^{-1}$ | 0.05 | 15 | 19 | 0 | <0.05 | <0.18 | 0.85 | HP25-02 | | <0.05 | 0.85 | 0.070 | 0.26 | <0.05 | <0.05 | 0.61 | <0.05 | 0.10 | <0.05 | 0.10 | 0.12 | <0.05 | 0.33 | 0.060 | <0.05 | 0.16 | 0.33 | <0.05 |
| Benzo[b]fluoranthene | mg.kg$^{-1}$ | 0.05 | 2.6 | 19 | 0 | <0.05 | <0.18 | 0.69 | MW25-03 | | <0.05 | 0.63 | 0.14 | 0.28 | <0.05 | <0.05 | 0.69 | <0.05 | 0.11 | <0.05 | 0.10 | <0.05 | <0.05 | 0.41 | 0.080 | <0.05 | 0.18 | 0.41 | 0.050 |
| Benzo[k]fluoranthene | mg.kg$^{-1}$ | 0.05 | 77 | 19 | 0 | <0.05 | <0.09 | 0.32 | HP25-02 | | <0.05 | 0.32 | <0.05 | 0.12 | <0.05 | <0.05 | 0.19 | <0.05 | <0.05 | <0.05 | 0.050 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | 0.080 | 0.14 | <0.05 |
| Benzo[a]pyrene | mg.kg$^{-1}$ | 0.05 | 4.96 | 19 | 0 | <0.05 | <0.15 | 1 | HP25-02 | | <0.05 | 0.54 | 0.12 | 0.21 | <0.05 | <0.05 | 0.54 | <0.05 | 0.080 | <0.05 | 0.060 | 0.080 | <0.05 | 0.33 | <0.05 | <0.05 | 0.12 | 0.35 | <0.05 |
| Indeno[1,2,3-cd]pyrene | mg.kg$^{-1}$ | 0.05 | 27 | 19 | 0 | <0.05 | <0.09 | 0.27 | HP25-02 | | <0.05 | 0.27 | 0.050 | 0.11 | <0.05 | <0.05 | 0.22 | <0.05 | <0.05 | <0.05 | 0.060 | 0.090 | <0.05 | 0.19 | <0.05 | <0.05 | <0.05 | 0.17 | <0.05 |
| Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.05 | 0.24 | 19 | 0 | <0.05 | <0.05 | 0 | HP25-02 | | <0.05 | 0.050 | <0.05 | <0.05 | <0.05 | <0.05 | 0.050 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[ghi]perylene | mg.kg$^{-1}$ | 0.05 | | 19 | | <0.05 | <0.11 | 0.34 | MW25-03 | | <0.05 | 0.29 | 0.070 | 0.14 | <0.05 | <0.05 | 0.34 | <0.05 | <0.05 | <0.05 | 0.080 | 0.14 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | 0.19 | <0.05 |
| PAH 16 Total | mg.kg$^{-1}$ | 0.8 | | 19 | | <0.8 | <2.1 | 10.1 | HP25-02 | | <0.8 | 10.10 | 0.89 | 2.49 | <0.8 | <0.8 | 6.92 | <0.8 | <0.8 | <0.8 | 0.97 | 1.16 | <0.8 | 3.13 | <0.8 | 1.95 | 1.65 | 3.15 | <0.8 |
| Arsenic | mg.kg$^{-1}$ | 1 | 37 | 18 | 2 | 5.8 | 16.8 | 47 | VW25-02 | | 15.00 | 13.00 | 13.00 | 19.00 | 14.00 | 9.80 | 7.40 | 16.00 | 10.00 | 9.40 | **47.00** | **41.00** | 14.00 | 15.00 | 17.00 | | 10.00 | 5.80 | 26.00 |
| Boron | mg.kg$^{-1}$ | 0.2 | 290 | 18 | 0 | 0.5 | 1.4 | 5 | VW25-24 | | 1.30 | 1.60 | 1.80 | 1.30 | 0.50 | 1.60 | 1.10 | 0.60 | 1.10 | 0.60 | 1.20 | 2.00 | 1.0 | 0.70 | 0.70 | | 1.0 | 5.20 | 1.50 |
| Cadmium | mg.kg$^{-1}$ | 0.2 | 22 | 18 | 0 | <0.2 | <0.3 | 1 | VW25-04 | | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.30 | <0.2 | 0.20 | <0.2 | <0.2 | <0.2 | <0.2 | 1.0 | <0.2 | | 0.40 | 0.30 | <0.2 |
| Chromium (VI) | mg.kg$^{-1}$ | 1.2 | 20.56762367 | 18 | 0 | <1.2 | <1.2 | <1.2 | n/a | | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | | <1.2 | <1.2 | <1.2 |
| Chromium (Total) | mg.kg$^{-1}$ | 1 | | 18 | | 9.8 | 20.1 | 34 | VW25-04 | | 20.00 | 20.00 | 22.00 | 22.00 | 22.00 | 24.00 | 18.00 | 9.80 | 13.00 | 24.00 | 18.00 | 22.00 | 17.00 | 34.00 | 17.00 | | 26.00 | 12.00 | 21.00 |
| Copper | mg.kg$^{-1}$ | 1 | 2400 | 18 | 0 | 8.4 | 23.2 | 44 | MW25-06 | | 19.00 | 16.00 | 30.00 | 28.00 | 23.00 | 12.00 | 24.00 | 44.00 | 17.00 | 32.00 | 21.00 | 31.00 | 24.00 | 37.00 | 13.00 | | 25.00 | 14.00 | 8.40 |
| Lead | mg.kg$^{-1}$ | 1 | 200.89 | 18 | 2 | 9 | 56.7 | 210 | MW25-03 | | 16.00 | 38.00 | 130.00 | 110.00 | 54.00 | 16.00 | **210.00** | 10.00 | 21.00 | 17.00 | 33.00 | 28.00 | 9.00 | **210.00** | 20.00 | | 27.00 | 24.00 | 48.00 |
| Mercury (inorganic) | mg.kg$^{-1}$ | 0.3 | 200 | 18 | 0 | <0.3 | <0.3 | <0.3 | n/a | | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | | <0.3 | <0.3 | <0.3 |
| Nickel | mg.kg$^{-1}$ | 1 | 180 | 18 | 0 | 6.3 | 16.6 | 23 | TP25-03 | | 18.00 | 16.00 | 18.00 | 20.00 | 17.00 | 18.00 | 12.00 | 6.30 | 12.00 | 23.00 | 15.00 | 20.00 | 15.00 | 22.00 | 17.00 | | 22.00 | 9.90 | 18.00 |
| Selenium | mg.kg$^{-1}$ | 1 | 250 | 18 | 0 | <1 | <1 | 1.2 | HP25-01 | | 1.20 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.0 | <1 | <1 | <1 | | 1.20 | <1 | <1 |
| Zinc | mg.kg$^{-1}$ | 1 | 3700 | 18 | 0 | 41 | 89.1 | 360 | VW25-04 | | 62.00 | 75.00 | 69.00 | 120.00 | 58.00 | 47.00 | 110.00 | 63.00 | 78.00 | 73.00 | 56.00 | 96.00 | 59.00 | 360.00 | 49.00 | | 130.00 | 58.00 | 41.00 |
| Benzene | mg.kg$^{-1}$ | 0.005 | 0.202927877 | 13 | 0 | <0.005 | <0.006 | 0.013 | HP25-02 | | <0.005 | 0.013 | <0.005 | <0.005 | | | | <0.005 | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 |
| Toluene | mg.kg$^{-1}$ | 0.005 | 130 | 13 | 0 | <0.005 | <0.006 | 0 | HP25-02 | | <0.005 | 0.013 | <0.005 | <0.005 | | | | <0.005 | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 |
| Ethylbenzene | mg.kg$^{-1}$ | 0.005 | 47 | 13 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | <0.005 | <0.005 | <0.005 | | | | <0.005 | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 |
| Xylene (p & m-Xylene) | mg.kg$^{-1}$ | 0.008 | | 13 | | <0.008 | <0.008 | <0.008 | n/a | | <0.008 | <0.008 | <0.008 | <0.008 | | | | <0.008 | | | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | | <0.008 | <0.008 | <0.008 |
| Xylene (o-Xylene) | mg.kg$^{-1}$ | 0.005 | 60 | 13 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | <0.005 | <0.005 | <0.005 | | | | <0.005 | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 |
| Methyl tert-butyl ether | mg.kg$^{-1}$ | 0.005 | 76.01 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | | <0.005 | | <0.005 | | | | | |
| TPH (C10 - C40) | mg.kg$^{-1}$ | 10 | | 17 | | <10 | <41.6 | 250 | TP25-03 | | <10 | <10 | <10 | <10 | <10 | <10 | 210.00 | <10 | | 250.00 | <10 | <10 | 28.00 | 22.00 | <10 | | 72.00 | 16.00 | <10 |
| Aliphatic C5 - C6 | mg.kg$^{-1}$ | 0.01 | 42 | 1 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | | <0.01 | | | | | | | | | | |
| Aliphatic C6 - C8 | mg.kg$^{-1}$ | 0.01 | 100 | 1 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | | <0.01 | | | | | | | | | | |
| Aliphatic C8 – C10 | mg.kg$^{-1}$ | 0.01 | 27 | 1 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | | <0.01 | | | | | | | | | | |
| Aliphatic C10 – C12 | mg.kg$^{-1}$ | 1 | 130 | 1 | 0 | <1 | <1 | <1 | n/a | | | | | | | | | | <1 | | | | | | | | | | |
| Aliphatic C12 – C16 | mg.kg$^{-1}$ | 2 | 1100 | 1 | 0 | <2 | <2 | <2 | n/a | | | | | | | | | | <2 | | | | | | | | | | |
| Aliphatic C16 – C21 | mg.kg$^{-1}$ | 8 | 65000 | 1 | 0 | <8 | <8 | <8 | n/a | | | | | | | | | | <8 | | | | | | | | | | |
| Aliphatic C21 – C35 | mg.kg$^{-1}$ | 8 | 65000 | 1 | 0 | <8 | <8 | <8 | n/a | | | | | | | | | | <8 | | | | | | | | | | |
| Aliphatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 1 | | <10 | <10 | <10 | n/a | | | | | | | | | | <10 | | | | | | | | | | |
| Aromatic C5 - C7 | mg.kg$^{-1}$ | 0.01 | 70 | 1 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | | <0.01 | | | | | | | | | | |
| Aromatic C7 - C8 | mg.kg$^{-1}$ | 0.01 | 130 | 1 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | | <0.01 | | | | | | | | | | |
| Aromatic C8 – C10 | mg.kg$^{-1}$ | 0.02 | 34 | 1 | 0 | <0.02 | <0.02 | <0.02 | n/a | | | | | | | | | | <0.02 | | | | | | | | | | |
| Aromatic C10 – C12 | mg.kg$^{-1}$ | 1 | 74 | 1 | 0 | <1 | <1 | <1 | n/a | | | | | | | | | | <1 | | | | | | | | | | |

worley consulting

# Table A: Soil Analytical Data (<0.8 m bgl) - Area A

Brick Kiln Street, Hinckley

| NUMBER OF SAMPLES: | 19 | | | | | | | | | Sample Location | HP25-01 | HP25-02 | HP25-03 | HP25-04 | MW25-02 | MW25-02 | MW25-03 | MW25-06 | TP25-01 | TP25-03 | VW25-02 | VW25-02 | VW25-03 | VW25-04 | VW25-04 | VW25-23 | VW25-23 | VW25-24 | VW25-24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Depth (m bgl) | 0.30 | 0.30 | 0.20 | 0.25 | 0.25 | 0.50 | 0.30 | 0.20 | 0.30 | 0.40 | 0.20 | 0.60 | 0.25 | 0.30 | 0.65 | 0.01 | 0.25 | 0.15 | 0.50 |
| | | | | | | | | | | Date Sampled | 13/02/2025 | 13/02/2025 | 21/02/2025 | 21/02/2025 | 03/02/2025 | 03/02/2025 | 03/02/2025 | 05/02/2025 | 03/02/2025 | 03/02/2025 | 10/02/2025 | 10/02/2025 | 10/02/2025 | 10/02/2025 | 10/02/2025 | 20/02/2025 | 20/02/2025 | 20/02/2025 | 20/02/2025 |
| | | | CRITERIA 1 | | CRITERIA 1 | | | | | Stratum | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | Tarmac | MGR | MGR | MGR |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Residential (with veg uptake C4SL)** | **No. Analyses** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** | | | | | | | | | | | | | | | | | | | | |
| Aromatic C12 – C16 | mg.kg$^{-1}$ | 2 | 140 | 1 | 0 | <2 | <2 | <2 | n/a | | | | | | | | | | <2 | | | | | | | | | | |
| Aromatic C16 – C21 | mg.kg$^{-1}$ | 10 | 260 | 1 | 0 | <10 | <10 | <10 | n/a | | | | | | | | | | <10 | | | | | | | | | | |
| Aromatic C21 – C35 | mg.kg$^{-1}$ | 10 | 1100 | 1 | 0 | <10 | <10 | <10 | n/a | | | | | | | | | | <10 | | | | | | | | | | |
| Aromatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 1 | | <10 | <10 | <10 | n/a | | | | | | | | | | <10 | | | | | | | | | | |
| Coal Tar | mg.kg$^{-1}$ | 10 | | 1 | | 13000 | 13000 | 13000 | VW25-23 | | | | | | | | | | | | | | | | | 13000 | | | |
| Chloromethane | mg.kg$^{-1}$ | 0.005 | 0.0119 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Chloroethane | mg.kg$^{-1}$ | 0.005 | 11.791 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Bromomethane | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Vinyl chloride (Chloroethene) | mg.kg$^{-1}$ | 0.005 | 0.0064 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Trichlorofluoromethane | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,1-Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.326 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Trans 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.9 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,1-Dichloroethane | mg.kg$^{-1}$ | 0.005 | 3.47 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 2,2-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Trichloromethane (Chloroform) | mg.kg$^{-1}$ | 0.005 | 0.91 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,1,1-Trichloroethane (TCA) | mg.kg$^{-1}$ | 0.005 | 8.8 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,2-Dichloroethane | mg.kg$^{-1}$ | 0.007 | 0.11 | 2 | 0 | <0.007 | <0.007 | <0.007 | n/a | | | | | | | | | | | | <0.007 | | <0.007 | | | | | | |
| 1,1-Dichloropropene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Cis 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.46 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Carbon tetrachloride (Tetrachloromethane) | mg.kg$^{-1}$ | 0.005 | 0.026 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,2-Dichloropropane | mg.kg$^{-1}$ | 0.006 | 0.0338 | 2 | 0 | <0.006 | <0.006 | <0.006 | n/a | | | | | | | | | | | | <0.006 | | <0.006 | | | | | | |
| Trichloroethylene | mg.kg$^{-1}$ | 0.01 | 0.0093 | 2 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | | | | <0.01 | | <0.01 | | | | | | |
| Dibromomethane | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Bromodichloromethane | mg.kg$^{-1}$ | 0.005 | 0.0239 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Cis-1,3-dichloropropene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Trans-1,3-dichloropropene | mg.kg$^{-1}$ | 0.01 | | 2 | | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | | | | <0.01 | | <0.01 | | | | | | |
| 1,1,2 Trichloroethane | mg.kg$^{-1}$ | 0.006 | 0.923 | 2 | 0 | <0.006 | <0.006 | <0.006 | n/a | | | | | | | | | | | | <0.006 | | <0.006 | | | | | | |
| 1,3-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Dibromochloromethane | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Tetrachloroethylene | mg.kg$^{-1}$ | 0.005 | 0.31 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,2-Dibromoethane | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| ChloroBenzene | mg.kg$^{-1}$ | 0.005 | 0.46 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.2 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Styrene | mg.kg$^{-1}$ | 0.005 | 19.448 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Bromoform | mg.kg$^{-1}$ | 0.005 | 4.548 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Iso-propylbenzene | mg.kg$^{-1}$ | 0.005 | 15.953 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.6 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Bromobenzene | mg.kg$^{-1}$ | 0.005 | 1.258 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| n-Propylbenzene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 2-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 4-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,3,5-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| tert-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | 0.517 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| sec-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 0.4 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| p-Isopropyltoluene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 45.847 | 0 | 0 | 0 | n/a | <0 | n/a | | | | | | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 23.08 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,2-Dibromo-3-chloropropane | mg.kg$^{-1}$ | 0.008 | | 2 | | <0.008 | <0.008 | <0.008 | n/a | | | | | | | | | | | | <0.008 | | <0.008 | | | | | | |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 2.58 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.005 | | 2 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |
| 1,2,3-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 1.477 | 2 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | <0.005 | | <0.005 | | | | | | |

MGR = Made Ground

NUMBER OF SAMPLES: 68

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Residential (with veg uptake C4SL) | No. Analyses | CRITERIA 1 Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|
| Stone Content | % | 0.1 | | 68 | | <0.1 | <24.5 | 72.4 | VW25-12 |
| Moisture Content | % | 0.01 | | 68 | | 1.2 | 11.61 | 52 | VW25-21 |
| Total mass of sample received | kg | 0.1 | | 68 | | 0.2 | 0.6 | 0.9 | VW25-11A |
| Asbestos in Soil | Detect | N/A | | 47 | | 0 | 0 | <0 | n/a |
| Asbestos in Soil Screen / Identification Name | Type | | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | | | | |
| Asbestos Quantification Total | % | 0.001 | | 15 | | <0.001 | <0.003 | 0.018 | MW25-27 |
| pH | pH Units | N/A | | 66 | | 6.1 | 8.7 | 11.8 | MW25-32 |
| Water Soluble SO4 16hr extraction (2:1) | mg.kg$^{-1}$ | 2.5 | | 66 | | 10 | 1340.9 | 4400 | MW25-27 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg.l$^{-1}$ | 1.25 | | 66 | | 5.03 | 671.14 | 2210 | MW25-27 |
| Sulphide | mg.kg$^{-1}$ | 1 | | 66 | | <1 | <12.4 | 160 | VW25-21 |
| Ammonium as NH4 | mg.kg$^{-1}$ | 0.5 | | 66 | | <0.5 | <4 | 78 | VW25-21 |
| Organic Matter | % | 0.1 | | 66 | | <0.1 | <2.1 | 19 | MW25-04A |
| Total Organic Carbon (TOC) | % | 0.1 | | 8 | | 0.2 | 2.2 | 10 | VW25-21 |
| Loss on Ignition | % | 0.2 | | 66 | | 0.4 | 4.4 | 76 | MW25-04A |
| Cyanide (Total) (as CN) | mg.kg$^{-1}$ | 1 | | 66 | | <1 | <33.3 | 670 | VW25-09 |
| Complexed cyanide | mg.kg$^{-1}$ | 1 | 1116.3 | 66 | 0 | <1 | <33 | 660 | VW25-09 |
| Easily liberatable cyanide | mg.kg$^{-1}$ | 1 | 1.44 | 66 | 5 | <1 | <1.2 | 8.2 | VW25-09 |
| Thiocyanate | mg.kg$^{-1}$ | 5 | | 66 | | <5 | <5.1 | 8.9 | VW25-01 |
| Chloride | mg.kg$^{-1}$ | 1 | | 66 | | <1 | <61.5 | 540 | MW25-08 |
| Sulphur (Elemental) | mg.kg$^{-1}$ | 5 | | 66 | | <5 | <136.3 | 2800 | VW25-21 |
| Catechol | mg.kg$^{-1}$ | 0.1 | | 66 | | <0.1 | <0.1 | <0.1 | n/a |
| Resorcinol | mg.kg$^{-1}$ | 0.1 | | 66 | | <0.1 | <0.1 | 0.56 | MW25-13A |
| Cresols (Total) | mg.kg$^{-1}$ | 0.3 | | 66 | | <0.3 | <0.3 | <0.3 | n/a |
| Naphthols | mg.kg$^{-1}$ | 0.2 | | 66 | | <0.2 | <0.2 | <0.2 | n/a |
| 2-Isopropylphenol | mg.kg$^{-1}$ | 0.1 | | 66 | | <0.1 | <0.1 | <0.1 | n/a |
| Phenol | mg.kg$^{-1}$ | 0.1 | 280 | 66 | 0 | <0.1 | <0.1 | 0.73 | MW25-13A |
| Trimethylphenol (2,3,5-) | mg.kg$^{-1}$ | 0.1 | | 66 | | <0.1 | <0.1 | <0.1 | n/a |
| Phenols (Total) | mg.kg$^{-1}$ | 1.4 | | 66 | | <1.4 | <1.4 | <1.4 | n/a |
| Xylenols and Ethylphenols (Total) | mg.kg$^{-1}$ | 0.4 | | 66 | | <0.4 | <0.4 | <0.4 | n/a |
| Naphthalene | mg.kg$^{-1}$ | 0.05 | 15 | 68 | 5 | <0.05 | <2.8 | 37 | MW25-34 |
| Acenaphthylene | mg.kg$^{-1}$ | 0.05 | 170 | 68 | 0 | <0.05 | <0.86 | 9.9 | MW25-22 |
| Acenaphthene | mg.kg$^{-1}$ | 0.05 | 210 | 68 | 0 | <0.05 | <0.5 | 5.3 | MW25-22 |
| Fluorene | mg.kg$^{-1}$ | 0.05 | 170 | 68 | 0 | <0.05 | <0.86 | 9.8 | MW25-22 |
| Phenanthrene | mg.kg$^{-1}$ | 0.05 | 95 | 68 | 0 | <0.05 | <4.46 | 40 | VW25-15 |
| Anthracene | mg.kg$^{-1}$ | 0.05 | 2400 | 68 | 0 | <0.05 | <1.27 | 12 | VW25-15 |
| Fluoranthene | mg.kg$^{-1}$ | 0.05 | 280 | 68 | 0 | <0.05 | <6.03 | 83 | VW25-15 |
| Pyrene | mg.kg$^{-1}$ | 0.05 | 620 | 68 | 0 | <0.05 | <5.42 | 76 | VW25-15 |
| Benzo[a]anthracene | mg.kg$^{-1}$ | 0.05 | | 68 | | <0.05 | <3.02 | 50 | VW25-15 |
| Chrysene | mg.kg$^{-1}$ | 0.05 | 15 | 68 | 1 | <0.05 | <2.86 | 42 | VW25-15 |
| Benzo[b]fluoranthene | mg.kg$^{-1}$ | 0.05 | 2.6 | 68 | 24 | <0.05 | <3.87 | 62 | VW25-15 |
| Benzo[k]fluoranthene | mg.kg$^{-1}$ | 0.05 | 77 | 68 | 0 | <0.05 | <1.57 | 29 | VW25-15 |
| Benzo[a]pyrene | mg.kg$^{-1}$ | 0.05 | 4.96 | 68 | 11 | <0.05 | <3.45 | 62 | VW25-15 |
| Indeno[1,2,3-cd]pyrene | mg.kg$^{-1}$ | 0.05 | 27 | 68 | 1 | <0.05 | <1.93 | 33 | VW25-15 |
| Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.05 | 0.24 | 68 | 25 | <0.05 | <0.37 | 6 | VW25-15 |
| Benzo[ghi]perylene | mg.kg$^{-1}$ | 0.05 | | 68 | | <0.05 | <2.12 | 38 | VW25-15 |
| PAH 16 Total | mg.kg$^{-1}$ | 0.8 | | 68 | | <0.8 | <41.3 | 546 | VW25-15 |
| Arsenic | mg.kg$^{-1}$ | 1 | 37 | 66 | 7 | 2.1 | 18.3 | 68 | VW25-21 |
| Boron | mg.kg$^{-1}$ | 0.2 | 290 | 66 | 0 | 0.3 | 1.9 | 8 | VW25-21 |
| Cadmium | mg.kg$^{-1}$ | 0.2 | 22 | 66 | 0 | <0.2 | <0.2 | 0.7 | MW25-15C |
| Chromium (VI) | mg.kg$^{-1}$ | 1.2 | 20.56762367 | 66 | 0 | <1.2 | <1.2 | <1.2 | n/a |
| Chromium (III) | mg.kg$^{-1}$ | | | | | | | | |
| Chromium (Total) | mg.kg$^{-1}$ | 1 | | 66 | | 5.8 | 24.1 | 86 | TP25-21 |
| Copper | mg.kg$^{-1}$ | 1 | 2400 | 66 | 0 | 6.5 | 39.7 | 180 | MW25-15C |
| Lead | mg.kg$^{-1}$ | 1 | 200.89 | 66 | 5 | 4.5 | 69.3 | 410 | MW25-15C |
| Mercury (inorganic) | mg.kg$^{-1}$ | 0.3 | 200 | 66 | 0 | <0.3 | <0.5 | 7 | VW25-01 |
| Nickel | mg.kg$^{-1}$ | 1 | 180 | 66 | 0 | 5.9 | 21.3 | 99 | MW25-15C |
| Selenium | mg.kg$^{-1}$ | 1 | 250 | 66 | 0 | <1 | <1.3 | 7.1 | TP25-10 |
| Zinc | mg.kg$^{-1}$ | 1 | 3700 | 66 | 0 | 15 | 90.4 | 320 | MW25-14 |
| Benzene | mg.kg$^{-1}$ | 0.005 | 0.202927877 | 53 | 0 | <0.005 | <0.008 | 0.07 | MW25-22 |
| Toluene | mg.kg$^{-1}$ | 0.005 | 130 | 53 | 0 | <0.005 | <0.007 | 0 | MW25-22 |
| Ethylbenzene | mg.kg$^{-1}$ | 0.005 | 47 | 53 | 0 | <0.005 | <0.013 | 0.18 | MW25-22 |
| Xylene (p & m-Xylene) | mg.kg$^{-1}$ | 0.008 | | 53 | | <0.008 | <0.012 | 0.12 | MW25-22 |
| Xylene (o-Xylene) | mg.kg$^{-1}$ | 0.005 | 60 | 53 | 0 | <0.005 | <0.012 | 0 | MW25-22 |
| Methyl tert-butyl ether | mg.kg$^{-1}$ | 0.005 | 76.01 | 11 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| TPH (C10 - C40) | mg.kg$^{-1}$ | 10 | | 59 | | <10 | <113.4 | 830 | TP25-12 |
| Aliphatic C5 - C6 | mg.kg$^{-1}$ | 0.01 | 42 | 11 | 0 | <0.01 | <0.01 | 0 | MW25-04A |
| Aliphatic C6 - C8 | mg.kg$^{-1}$ | 0.01 | 100 | 11 | 0 | <0.01 | <0.02 | 0 | MW25-04A |
| Aliphatic C8 – C10 | mg.kg$^{-1}$ | 0.01 | 27 | 11 | 0 | <0.01 | <0.04 | 0 | MW25-01 |
| Aliphatic C10 – C12 | mg.kg$^{-1}$ | 1 | 130 | 11 | 0 | <1 | <5.1 | 37 | MW25-04A |
| Aliphatic C12 – C16 | mg.kg$^{-1}$ | 2 | 1100 | 11 | 0 | <2 | <14.2 | 50 | MW25-01 |
| Aliphatic C16 – C21 | mg.kg$^{-1}$ | 8 | 65000 | 11 | 0 | <8 | <30.3 | 63 | MW25-01 |
| Aliphatic C21 – C35 | mg.kg$^{-1}$ | 8 | 65000 | 11 | 0 | <8 | <104.7 | 310 | TP25-12 |
| Aliphatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 11 | | <10 | <152.3 | 360 | TP25-12 |
| Aromatic C5 - C7 | mg.kg$^{-1}$ | 0.01 | 70 | 11 | 0 | <0.01 | <0.03 | 0.11 | MW25-04A |
| Aromatic C7 - C8 | mg.kg$^{-1}$ | 0.01 | 130 | 11 | 0 | <0.01 | <0.02 | 0.093 | MW25-04A |
| Aromatic C8 – C10 | mg.kg$^{-1}$ | 0.02 | 34 | 11 | 0 | <0.02 | <0.13 | 0.59 | MW25-22 |
| Aromatic C10 – C12 | mg.kg$^{-1}$ | 1 | 74 | 11 | 0 | <1 | <3.7 | 22 | MW25-22 |
| Aromatic C12 – C16 | mg.kg$^{-1}$ | 2 | 140 | 11 | 0 | <2 | <23.9 | 110 | MW25-22 |
| Aromatic C16 – C21 | mg.kg$^{-1}$ | 10 | 260 | 11 | 0 | <10 | <78.2 | 200 | VW25-15 |
| Aromatic C21 – C35 | mg.kg$^{-1}$ | 10 | 1100 | 11 | 0 | <10 | <143.4 | 300 | TP25-12 |
| Aromatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 11 | | <10 | <246.9 | 470 | VW25-15 |
| Coal tar | mg.kg$^{-1}$ | 10 | | 2 | | 1600 | 2500 | 3400 | MW25-12 |
| Chloromethane | mg.kg$^{-1}$ | 0.005 | 0.0119 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Chloroethane | mg.kg$^{-1}$ | 0.005 | 11.791 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Bromomethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| Vinyl chloride (Chloroethene) | mg.kg$^{-1}$ | 0.005 | 0.0064 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Trichlorofluoromethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,1-Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.326 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| Trans 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.9 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1-Dichloroethane | mg.kg$^{-1}$ | 0.005 | 3.47 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 2,2-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| Trichloromethane (Chloroform) | mg.kg$^{-1}$ | 0.005 | 0.91 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1,1-Trichloroethane (TCA) | mg.kg$^{-1}$ | 0.005 | 8.8 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-Dichloroethane | mg.kg$^{-1}$ | 0.007 | 0.11 | 7 | 0 | <0.007 | <0.007 | <0.007 | n/a |
| 1,1-Dichloropropene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| Cis 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.46 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Carbon tetrachloride (Tetrachloromethane) | mg.kg$^{-1}$ | 0.005 | 0.026 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-Dichloropropane | mg.kg$^{-1}$ | 0.006 | 0.0338 | 7 | 0 | <0.006 | <0.006 | <0.006 | n/a |
| Trichloroethylene | mg.kg$^{-1}$ | 0.01 | 0.0093 | 7 | 0 | <0.01 | <0.01 | <0.01 | n/a |
| Dibromomethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| Bromodichloromethane | mg.kg$^{-1}$ | 0.005 | 0.0239 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Cis-1,3-dichloropropene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| Trans-1,3-dichloropropene | mg.kg$^{-1}$ | 0.01 | | 7 | | <0.01 | <0.01 | <0.01 | n/a |
| 1,1,2 Trichloroethane | mg.kg$^{-1}$ | 0.006 | 0.923 | 7 | 0 | <0.006 | <0.006 | <0.006 | n/a |
| 1,3-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| Dibromochloromethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| Tetrachloroethylene | mg.kg$^{-1}$ | 0.005 | 0.31 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-Dibromoethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| ChloroBenzene | mg.kg$^{-1}$ | 0.005 | 0.46 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.2 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Styrene | mg.kg$^{-1}$ | 0.005 | 19.448 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Bromoform | mg.kg$^{-1}$ | 0.005 | 4.548 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Iso-propylbenzene | mg.kg$^{-1}$ | 0.005 | 15.953 | 7 | 0 | <0.005 | <0.006 | 0.0099 | MW25-22 |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.6 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Bromobenzene | mg.kg$^{-1}$ | 0.005 | 1.258 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| n-Propylbenzene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.006 | 0.0096 | MW25-22 |
| 2-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| 4-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,3,5-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.017 | 0.087 | MW25-22 |
| tert-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | 0.517 | 7 | 0 | <0.005 | <0.043 | 0.27 | MW25-22 |
| sec-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 0.4 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| p-Isopropyltoluene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 45.847 | 4 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 23.08 | 5 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-Dibromo-3-chloropropane | mg.kg$^{-1}$ | 0.008 | | 7 | | <0.008 | <0.008 | <0.008 | n/a |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 2.58 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,2,3-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 1.477 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Aniline | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a |
| Phenol | mg.kg$^{-1}$ | 0.2 | 280 | 3 | 0 | <0.2 | <0.2 | <0.2 | n/a |
| 2-chlorophenol | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a |
| Bis(2-chloroethyl)ether | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 0.4 | 3 | 0 | <0.2 | <0.2 | <0.2 | n/a |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.1 | 23.08 | 3 | 0 | <0.1 | <0.1 | <0.1 | n/a |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 45.847 | 3 | 0 | <0.2 | <0.2 | <0.2 | n/a |
| Bis(2-chloroisopropyl)ether | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a |
| 2-Methylphenol | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a |
| Hexachloroethane | mg.kg$^{-1}$ | 0.05 | 0.287 | 3 | 0 | <0.05 | <0.05 | <0.05 | n/a |
| Nitrobenzene | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a |
| 4-Methylphenol | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a |
| Isophorone | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a |
| 2-Nitrophenol | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a |
| 2,4-Dimethylphenol | mg.kg$^{-1}$ | 0.3 | 34.117 | 3 | 0 | <0.3 | <0.3 | <0.3 | n/a |
| Bis(2-chloroethoxy)methane | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.3 | 2.58 | 3 | 0 | <0.3 | <0.3 | <0.3 | n/a |
| 2,4-Dichlorophenol | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a |
| 4-Chloroaniline | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a |
| 4-Chloro-3-methylphenol | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a |
| 2,4,6-Trichlorophenol | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a |
| 2,4,5-Trichlorophenol | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a |
| 2-Methylnaphthalene | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <5.6 | 16 | MW25-22 |
| 2-Chloronaphthalene | mg.kg$^{-1}$ | 0.1 | 5.334 | 3 | 0 | <0.1 | <0.1 | <0.1 | n/a |
| Dimethylphthalate | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a |
| 2,6-Dinitrotoluene | mg.kg$^{-1}$ | 0.1 | 1.469 | 3 | 0 | <0.1 | <0.1 | <0.1 | n/a |
| 2,4-Dinitrotoluene | mg.kg$^{-1}$ | 0.2 | 2.774 | 3 | 0 | <0.2 | <0.2 | <0.2 | n/a |
| Dibenzofuran | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.7 | 1.3 | MW25-22 |
| 4-Chlorophenyl phenyl ether | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a |
| Diethyl phthalate | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a |
| 4-Nitroaniline | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a |
| Azobenzene | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a |
| Bromophenyl phenyl ether | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a |
| Hexachlorobenzene | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a |
| Carbazole | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | 0.4 | VW25-01 |
| Dibutyl phthalate | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a |
| Anthraquinone | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <1.1 | 2.3 | MW25-22 |
| Butyl benzyl phthalate | mg.kg$^{-1}$ | 0.3 | 2615.035 | 3 | 0 | <0.3 | <0.3 | <0.3 | n/a |
| PCB Congener 28 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 52 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 101 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 118 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 138 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 153 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 180 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| Total PCBs | mg.kg$^{-1}$ | 0.007 | | 1 | | <0.007 | <0.007 | <0.007 | n/a |

| Sample Location | MW25-01 | VW25-22 | MW25-04A | MW25-07 | MW25-35 | TP25-23 | VW25-20A | VW25-20A | VW25-21 | VW25-21 |
|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Settling tanks | Settling tanks | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip |
| Depth (m bgl) | 0.45 | 0.35 | 0.70 | 0.40 | 0.30 | 0.10 | 0.20 | 0.75 | 0.25 | 0.75 |
| Date Sampled | 03/02/2025 | 20/02/2025 | 03/02/2025 | 06/02/2025 | 27/02/2025 | 13/02/2025 | 19/02/2025 | 19/02/2025 | 19/02/2025 | 19/02/2025 |
| Stratum | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR |
| Stone Content | 10.60 | 70.50 | <0.1 | 37.30 | <0.1 | 68.80 | 13.20 | 25.30 | <0.1 | <0.1 |
| Moisture Content | 28.00 | 5.10 | 11.00 | 9.20 | 13.00 | 14.00 | 13.00 | 13.00 | 9.00 | 52.00 |
| Total mass of sample received | 0.60 | 0.80 | 0.60 | 0.60 | 0.50 | 0.60 | 0.50 | 0.60 | 0.50 | 0.50 |
| Asbestos in Soil | Not-detected | - | Not-detected | Not-detected | - | Not-detected | Detected | - | Not-detected | - |
| Asbestos in Soil Screen / Identification Name | | | | | | | Amosite | | | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | | Loose Fibrous Debris | | | |
| Asbestos Quantification Total | | | | | | | 0.0090 | | | |
| pH | 8.10 | 11.20 | 7.60 | 8.20 | 7.70 | 11.00 | 7.40 | 9.10 | 7.50 | 6.10 |
| Water Soluble SO4 16hr extraction (2:1) | 530.00 | 110.00 | 3700.00 | 3600.00 | 3400.00 | 2900.00 | 180.00 | 2300.00 | 4100.00 | 1200.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 263.00 | 57.20 | 1850.00 | 1780.00 | 1700.00 | 1460.00 | 90.50 | 1160.00 | 2050.00 | 596.00 |
| Sulphide | 71.00 | <1 | 21.00 | 1.90 | <1 | <1 | 2.60 | 24.00 | <1 | 160.00 |
| Ammonium as NH4 | 70.00 | <0.5 | 19.00 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 78.00 |
| Organic Matter | 7.80 | 0.30 | 19.00 | 0.70 | 1.50 | 1.30 | 3.20 | 2.90 | 0.60 | 17.00 |
| Total Organic Carbon (TOC) | | 0.20 | | | | | | 1.70 | | 10.00 |
| Loss on Ignition | 9.10 | 1.0 | 76.00 | 1.0 | 2.40 | 2.80 | 5.20 | 5.90 | 1.60 | 20.00 |
| Cyanide (Total) (as CN) | 82.00 | <1 | 35.00 | <1 | 47.00 | <1 | 41.00 | 200.00 | <1 | <1 |
| Complexed cyanide | 82.00 | <1 | 35.00 | <1 | 47.00 | <1 | 41.00 | 200.00 | <1 | <1 |
| Easily liberatable cyanide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 5.60 |
| Chloride | 110.00 | 24.00 | 42.00 | 25.00 | 110.00 | 15.00 | 12.00 | 42.00 | 7.00 | 210.00 |
| Sulphur (Elemental) | 2000.00 | 10.00 | 110.00 | 8.10 | 12.00 | <5 | 8.90 | 76.00 | 8.40 | 2800.00 |
| Catechol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.10 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | 4.40 | 0.050 | 17.00 | <0.05 | 0.13 | 0.060 | 0.23 | 1.80 | 0.060 | 8.60 |
| Acenaphthylene | 1.10 | <0.05 | 0.53 | 0.19 | 0.18 | <0.05 | 0.40 | 2.60 | <0.05 | 0.35 |
| Acenaphthene | 2.40 | <0.05 | 0.58 | <0.05 | <0.05 | <0.05 | <0.05 | 2.00 | <0.05 | 0.47 |
| Fluorene | 1.60 | <0.05 | 1.30 | 0.13 | 0.10 | <0.05 | 0.14 | 2.60 | <0.05 | 0.87 |
| Phenanthrene | 4.70 | 0.10 | 8.20 | 1.60 | 1.10 | 0.10 | 1.50 | 22.00 | <0.05 | 0.94 |
| Anthracene | 1.60 | <0.05 | 1.50 | 0.36 | 0.29 | <0.05 | 0.55 | 7.30 | <0.05 | 0.23 |
| Fluoranthene | 6.60 | 0.13 | 5.60 | 1.60 | 2.00 | 0.12 | 3.60 | 39.00 | <0.05 | 0.26 |
| Pyrene | 6.00 | 0.13 | 4.60 | 1.30 | 1.80 | 0.14 | 3.50 | 34.00 | <0.05 | 0.20 |
| Benzo[a]anthracene | 2.60 | 0.080 | 1.80 | 0.65 | 0.96 | <0.05 | 1.80 | 18.00 | <0.05 | <0.05 |
| Chrysene | 2.90 | 0.080 | 1.90 | 0.59 | 1.0 | <0.05 | 1.90 | 15.00 | <0.05 | <0.05 |
| Benzo[b]fluoranthene | 4.00 | 0.13 | 1.80 | 0.52 | 1.30 | <0.05 | 2.70 | 22.00 | <0.05 | <0.05 |
| Benzo[k]fluoranthene | 2.10 | <0.05 | 0.48 | 0.35 | 0.54 | <0.05 | 1.10 | 7.40 | <0.05 | <0.05 |
| Benzo[a]pyrene | 3.50 | 0.13 | 1.0 | 0.56 | 1.20 | <0.05 | 2.40 | 19.00 | <0.05 | <0.05 |
| Indeno[1,2,3-cd]pyrene | 2.00 | 0.080 | 0.55 | 0.35 | 0.72 | <0.05 | 1.40 | 9.50 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | 0.32 | <0.05 | 0.13 | <0.05 | 0.17 | <0.05 | 0.21 | 1.70 | <0.05 | <0.05 |
| Benzo[ghi]perylene | 2.30 | 0.10 | 0.67 | 0.34 | 0.86 | <0.05 | 1.40 | 9.70 | <0.05 | <0.05 |
| PAH 16 Total | 48.10 | 1.01 | 47.80 | 8.50 | 12.40 | <0.8 | 22.70 | 213.00 | <0.8 | 11.90 |
| Arsenic | 24.00 | 13.00 | 27.00 | 11.00 | 17.00 | 25.00 | 24.00 | 44.00 | 9.90 | 68.00 |
| Boron | 6.40 | 0.60 | 3.30 | 3.00 | 3.90 | 1.70 | 1.80 | 1.80 | 3.80 | 7.60 |
| Cadmium | <0.2 | <0.2 | <0.2 | 0.50 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | |
| Chromium (Total) | 52.00 | 16.00 | 5.80 | 20.00 | 33.00 | 20.00 | 24.00 | 37.00 | 18.00 | 19.00 |
| Copper | 100.00 | 14.00 | 25.00 | 33.00 | 37.00 | 34.00 | 36.00 | 94.00 | 7.40 | 50.00 |
| Lead | 62.00 | 11.00 | 54.00 | 18.00 | 49.00 | 26.00 | 92.00 | 330.00 | 6.30 | 39.00 |
| Mercury (inorganic) | 0.40 | <0.3 | 0.70 | <0.3 | <0.3 | <0.3 | 0.30 | 1.80 | <0.3 | <0.3 |
| Nickel | 23.00 | 13.00 | 8.10 | 15.00 | 38.00 | 29.00 | 23.00 | 48.00 | 7.70 | 17.00 |
| Selenium | 1.70 | <1 | 1.90 | <1 | <1 | <1 | <1 | 1.10 | <1 | 3.50 |
| Zinc | 120.00 | 73.00 | 23.00 | 93.00 | 200.00 | 97.00 | 130.00 | 230.00 | 22.00 | 36.00 |
| Benzene | | <0.005 | | <0.005 | <0.005 | 0.0070 | <0.005 | <0.005 | <0.005 | <0.005 |
| Toluene | | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Ethylbenzene | | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Xylene (p & m-Xylene) | | <0.008 | | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 |
| Xylene (o-Xylene) | | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Methyl tert-butyl ether | | | | | | | | <0.005 | | <0.005 |
| TPH (C10 - C40) | | <10 | | <10 | 13.00 | 370.00 | 70.00 | 690.00 | <10 | |
| Aliphatic C5 - C6 | <0.01 | | 0.045 | | | | | <0.01 | | <0.01 |
| Aliphatic C6 - C8 | <0.01 | | 0.066 | | | | | <0.01 | | <0.01 |
| Aliphatic C8 – C10 | 0.31 | | 0.028 | | | | | <0.01 | | <0.01 |
| Aliphatic C10 – C12 | 5.40 | | 37.00 | | | | | 1.10 | | <1 |
| Aliphatic C12 – C16 | 50.00 | | 16.00 | | | | | 8.70 | | <2 |
| Aliphatic C16 – C21 | 63.00 | | 12.00 | | | | | 29.00 | | <8 |
| Aliphatic C21 – C35 | 150.00 | | 72.00 | | | | | 120.00 | | 23.00 |
| Aliphatic C5 – C35 | 270.00 | | 140.00 | | | | | 160.00 | | 23.00 |
| Aromatic C5 - C7 | <0.01 | | 0.11 | | | | | <0.01 | | <0.01 |
| Aromatic C7 - C8 | <0.01 | | 0.093 | | | | | <0.01 | | <0.01 |
| Aromatic C8 – C10 | 0.26 | | 0.13 | | | | | <0.02 | | <0.02 |
| Aromatic C10 – C12 | 4.30 | | 2.30 | | | | | 1.70 | | 1.80 |
| Aromatic C12 – C16 | 26.00 | | 11.00 | | | | | 18.00 | | <2 |
| Aromatic C16 – C21 | 56.00 | | 11.00 | | | | | 150.00 | | <10 |
| Aromatic C21 – C35 | 96.00 | | 34.00 | | | | | 290.00 | | <10 |
| Aromatic C5 – C35 | 180.00 | | 58.00 | | | | | 450.00 | | <10 |
| Chloromethane | | | | | | | | <0.005 | | <0.005 |
| Chloroethane | | | | | | | | <0.005 | | <0.005 |
| Bromomethane | | | | | | | | <0.005 | | <0.005 |
| Vinyl chloride (Chloroethene) | | | | | | | | <0.005 | | <0.005 |
| Trichlorofluoromethane | | | | | | | | <0.005 | | <0.005 |
| 1,1-Dichloroethene | | | | | | | | <0.005 | | <0.005 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | | | | | | | | <0.005 | | <0.005 |
| Trans 1,2 Dichloroethene | | | | | | | | <0.005 | | <0.005 |
| 1,1-Dichloroethane | | | | | | | | <0.005 | | <0.005 |
| 2,2-Dichloropropane | | | | | | | | <0.005 | | <0.005 |
| Trichloromethane (Chloroform) | | | | | | | | <0.005 | | <0.005 |
| 1,1,1-Trichloroethane (TCA) | | | | | | | | <0.005 | | <0.005 |
| 1,2-Dichloroethane | | | | | | | | <0.007 | | <0.007 |
| 1,1-Dichloropropene | | | | | | | | <0.005 | | <0.005 |
| Cis 1,2 Dichloroethene | | | | | | | | <0.005 | | <0.005 |
| Carbon tetrachloride (Tetrachloromethane) | | | | | | | | <0.005 | | <0.005 |
| 1,2-Dichloropropane | | | | | | | | <0.006 | | <0.006 |
| Trichloroethylene | | | | | | | | <0.01 | | <0.01 |
| Dibromomethane | | | | | | | | <0.005 | | <0.005 |
| Bromodichloromethane | | | | | | | | <0.005 | | <0.005 |
| Cis-1,3-dichloropropene | | | | | | | | <0.005 | | <0.005 |
| Trans-1,3-dichloropropene | | | | | | | | <0.01 | | <0.01 |
| 1,1,2 Trichloroethane | | | | | | | | <0.006 | | <0.006 |
| 1,3-Dichloropropane | | | | | | | | <0.005 | | <0.005 |
| Dibromochloromethane | | | | | | | | <0.005 | | <0.005 |
| Tetrachloroethylene | | | | | | | | <0.005 | | <0.005 |
| 1,2-Dibromoethane | | | | | | | | <0.005 | | <0.005 |
| ChloroBenzene | | | | | | | | <0.005 | | <0.005 |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | | | | | | | | <0.005 | | <0.005 |
| Styrene | | | | | | | | <0.005 | | <0.005 |
| Bromoform | | | | | | | | <0.005 | | <0.005 |
| Iso-propylbenzene | | | | | | | | <0.005 | | <0.005 |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | | | | | | | | <0.005 | | <0.005 |
| Bromobenzene | | | | | | | | <0.005 | | <0.005 |
| n-Propylbenzene | | | | | | | | <0.005 | | <0.005 |
| 2-Chlorotoluene | | | | | | | | <0.005 | | <0.005 |
| 4-Chlorotoluene | | | | | | | | <0.005 | | <0.005 |
| 1,3,5-Trimethylbenzene | | | | | | | | <0.005 | | <0.005 |
| tert-Butylbenzene | | | | | | | | <0.005 | | <0.005 |
| 1,2,4-Trimethylbenzene | | | | | | | | <0.005 | | <0.005 |
| sec-Butylbenzene | | | | | | | | <0.005 | | <0.005 |
| 1,3-dichlorobenzene | | | | | | | | <0.005 | | <0.005 |
| p-Isopropyltoluene | | | | | | | | <0.005 | | <0.005 |
| 1,4-dichlorobenzene | | | | | | | | <0.005 | | <0.005 |
| 1,2-dichlorobenzene | | | | | | | | | | |
| Butylbenzene | | | | | | | | <0.005 | | <0.005 |
| 1,2-Dibromo-3-chloropropane | | | | | | | | <0.008 | | <0.008 |
| 1,2,4-trichlorobenzene | | | | | | | | <0.005 | | <0.005 |
| Hexachlorobutadiene | | | | | | | | <0.005 | | <0.005 |
| 1,2,3-trichlorobenzene | | | | | | | | <0.005 | | <0.005 |
| Aniline | | | | | | | | | | <0.1 |
| Phenol | | | | | | | | | | <0.2 |
| 2-chlorophenol | | | | | | | | | | <0.1 |
| Bis(2-chloroethyl)ether | | | | | | | | | | <0.2 |
| 1,3-dichlorobenzene | | | | | | | | | | <0.2 |
| 1,2-dichlorobenzene | | | | | | | | | | <0.1 |
| 1,4-dichlorobenzene | | | | | | | | | | <0.2 |
| Bis(2-chloroisopropyl)ether | | | | | | | | | | <0.1 |
| 2-Methylphenol | | | | | | | | | | <0.3 |
| Hexachloroethane | | | | | | | | | | <0.05 |
| Nitrobenzene | | | | | | | | | | <0.3 |
| 4-Methylphenol | | | | | | | | | | <0.2 |
| Isophorone | | | | | | | | | | <0.2 |
| 2-Nitrophenol | | | | | | | | | | <0.3 |
| 2,4-Dimethylphenol | | | | | | | | | | <0.3 |
| Bis(2-chloroethoxy)methane | | | | | | | | | | <0.3 |
| 1,2,4-trichlorobenzene | | | | | | | | | | <0.3 |
| 2,4-Dichlorophenol | | | | | | | | | | <0.3 |
| 4-Chloroaniline | | | | | | | | | | <0.1 |
| Hexachlorobutadiene | | | | | | | | | | <0.1 |
| 4-Chloro-3-methylphenol | | | | | | | | | | <0.1 |
| 2,4,6-Trichlorophenol | | | | | | | | | | <0.1 |
| 2,4,5-Trichlorophenol | | | | | | | | | | <0.2 |
| 2-Methylnaphthalene | | | | | | | | | | <0.1 |
| 2-Chloronaphthalene | | | | | | | | | | <0.1 |
| Dimethylphthalate | | | | | | | | | | <0.1 |
| 2,6-Dinitrotoluene | | | | | | | | | | <0.1 |
| 2,4-Dinitrotoluene | | | | | | | | | | <0.2 |
| Dibenzofuran | | | | | | | | | | <0.2 |
| 4-Chlorophenyl phenyl ether | | | | | | | | | | <0.3 |
| Diethyl phthalate | | | | | | | | | | <0.2 |
| 4-Nitroaniline | | | | | | | | | | <0.2 |
| Azobenzene | | | | | | | | | | <0.3 |
| Bromophenyl phenyl ether | | | | | | | | | | <0.2 |
| Hexachlorobenzene | | | | | | | | | | <0.3 |
| Carbazole | | | | | | | | | | <0.3 |
| Dibutyl phthalate | | | | | | | | | | <0.2 |
| Anthraquinone | | | | | | | | | | <0.3 |
| Butyl benzyl phthalate | | | | | | | | | | <0.3 |
| PCB Congener 28 | | | | | <0.001 | | | | | |
| PCB Congener 52 | | | | | <0.001 | | | | | |
| PCB Congener 101 | | | | | <0.001 | | | | | |
| PCB Congener 118 | | | | | <0.001 | | | | | |
| PCB Congener 138 | | | | | <0.001 | | | | | |
| PCB Congener 153 | | | | | <0.001 | | | | | |
| PCB Congener 180 | | | | | <0.001 | | | | | |
| Total PCBs | | | | | <0.007 | | | | | |

| Sample Location | MW25-36 | MW25-13A | TP25-04 | TP25-05 | TP25-06 | TP25-07 | TP25-08 | VW25-14 | MW25-17 | MW25-17 |
|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Reservoir | GH1 | GH1 | GH1 | GH1 | GH2 | GH2 | GH2 | GH3 | GH3 |
| Depth (m bgl) | 0.20 | 0.80 | 0.30 | 0.35 | 0.40 | 0.50 | 0.60 | 0.30 | 0.20 | 0.80 |
| Date Sampled | 26/02/2025 | 11/02/2025 | 03/02/2025 | 04/02/2025 | 05/02/2025 | 05/02/2025 | 05/02/2025 | 13/02/2025 | 13/02/2025 | 13/02/2025 |
| Stratum | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR |
| Stone Content | 52.20 | <0.1 | 33.90 | 31.20 | 43.60 | 36.60 | <0.1 | 45.10 | 53.80 | 33.00 |
| Moisture Content | 14.00 | 19.00 | 8.70 | 7.30 | 8.70 | 6.90 | 7.20 | 6.70 | 7.00 | 10.00 |
| Total mass of sample received | 0.50 | 0.20 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Asbestos in Soil | Not-detected | Detected | Not-detected | Not-detected | Detected | Not-detected | Not-detected | Not-detected | Not-detected | - |
| Asbestos in Soil Screen / Identification Name | | Amosite, Chrysotile | | | Chrysotile | | | | | |
| Asbestos Containing Material Types Detected (ACM) | | Loose Fibres | | | Loose Fibres | | | | | |
| Asbestos Quantification Total | | 0.0010 | | | <0.001 | | | | | |
| pH | 7.50 | 8.20 | 11.50 | 9.50 | 11.50 | 11.20 | 9.10 | 9.20 | 7.80 | 8.20 |
| Water Soluble SO4 16hr extraction (2:1) | 1900.00 | 3000.00 | 210.00 | 980.00 | 170.00 | 1200.00 | 400.00 | 43.00 | 540.00 | 3100.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 966.00 | 1520.00 | 106.00 | 488.00 | 84.80 | 583.00 | 200.00 | 21.70 | 270.00 | 1570.00 |
| Sulphide | 1.30 | 3.20 | 2.40 | 6.20 | 1.80 | 3.60 | 1.30 | 3.90 | 1.40 | 26.00 |
| Ammonium as NH4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 7.40 |
| Organic Matter | 3.50 | 1.60 | <0.1 | 0.70 | 0.30 | <0.1 | 0.30 | <0.1 | 0.60 | 2.70 |
| Total Organic Carbon (TOC) | | | | | | | | | | |
| Loss on Ignition | 5.80 | 3.10 | 0.80 | 2.30 | 1.10 | 1.10 | 0.70 | 0.80 | 1.50 | 4.20 |
| Cyanide (Total) (as CN) | <1 | 7.50 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 31.00 |
| Complexed cyanide | <1 | 7.50 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 31.00 |
| Easily liberatable cyanide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloride | 8.70 | 65.00 | 21.00 | 21.00 | 5.80 | 18.00 | 25.00 | 5.60 | 15.00 | 200.00 |
| Sulphur (Elemental) | 24.00 | 18.00 | <5 | 19.00 | <5 | 9.30 | <5 | <5 | 12.00 | 170.00 |
| Catechol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | <0.1 | 0.56 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | <0.1 | 0.73 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | 0.16 | 2.50 | <0.05 | 2.70 | 0.060 | 0.22 | <0.05 | <0.05 | 0.28 | 3.20 |
| Acenaphthylene | <0.05 | 4.70 | <0.05 | 0.22 | 0.11 | 0.080 | <0.05 | <0.05 | 0.050 | 2.90 |
| Acenaphthene | <0.05 | 5.20 | <0.05 | 0.070 | <0.05 | 0.050 | <0.05 | <0.05 | <0.05 | 1.0 |
| Fluorene | <0.05 | 8.50 | <0.05 | 0.12 | <0.05 | 0.070 | <0.05 | <0.05 | 0.070 | 4.00 |
| Phenanthrene | 0.070 | 26.00 | <0.05 | 0.67 | 0.32 | 0.39 | 0.13 | <0.05 | 0.26 | 13.00 |
| Anthracene | <0.05 | 7.10 | <0.05 | 0.20 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | 4.00 |
| Fluoranthene | 0.070 | 15.00 | <0.05 | 1.0 | 0.86 | 0.57 | 0.37 | <0.05 | 0.15 | 11.00 |
| Pyrene | <0.05 | 14.00 | <0.05 | 0.89 | <0.05 | 0.54 | 0.36 | <0.05 | 0.14 | 11.00 |
| Benzo[a]anthracene | <0.05 | 6.00 | <0.05 | 0.62 | 0.51 | 0.31 | <0.05 | <0.05 | 0.080 | 5.00 |
| Chrysene | 0.050 | 5.80 | <0.05 | 0.61 | 0.57 | 0.29 | 0.21 | <0.05 | 0.10 | 4.70 |
| Benzo[b]fluoranthene | <0.05 | 5.50 | <0.05 | 0.82 | 0.85 | 0.46 | 0.32 | <0.05 | <0.05 | 4.60 |
| Benzo[k]fluoranthene | <0.05 | 2.20 | <0.05 | 0.35 | 0.39 | <0.05 | 0.12 | <0.05 | <0.05 | 1.60 |
| Benzo[a]pyrene | <0.05 | 5.00 | <0.05 | 0.76 | 0.73 | 0.39 | <0.05 | <0.05 | <0.05 | 4.40 |
| Indeno[1,2,3-cd]pyrene | <0.05 | 2.30 | <0.05 | 0.48 | 0.40 | 0.20 | 0.18 | <0.05 | <0.05 | 1.70 |
| Dibenz(a,h)anthracene | <0.05 | 0.65 | <0.05 | 0.090 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | 0.35 |
| Benzo[ghi]perylene | <0.05 | 2.40 | <0.05 | 0.49 | 0.44 | 0.23 | 0.16 | <0.05 | <0.05 | 2.00 |
| PAH 16 Total | <0.8 | 112.00 | <0.8 | 10.10 | 5.47 | 3.82 | 1.84 | <0.8 | 1.14 | 74.80 |
| Arsenic | 14.00 | 15.00 | 14.00 | 13.00 | 15.00 | 17.00 | 14.00 | 4.00 | 27.00 | 18.00 |
| Boron | 3.20 | 6.40 | 1.20 | 2.30 | 0.60 | 0.70 | 2.30 | 0.70 | 0.70 | 4.90 |
| Cadmium | 0.40 | 0.40 | 0.40 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | |
| Chromium (Total) | 34.00 | 24.00 | 13.00 | 16.00 | 20.00 | 16.00 | 15.00 | 9.10 | 40.00 | 27.00 |
| Copper | 45.00 | 29.00 | 22.00 | 24.00 | 40.00 | 20.00 | 24.00 | 12.00 | 66.00 | 40.00 |
| Lead | 29.00 | 54.00 | 14.00 | 29.00 | 21.00 | 46.00 | 16.00 | 9.50 | 17.00 | 96.00 |
| Mercury (inorganic) | <0.3 | 0.50 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel | 28.00 | 21.00 | 11.00 | 13.00 | 13.00 | 13.00 | 13.00 | 8.00 | 27.00 | 21.00 |
| Selenium | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 3.70 | <1 |
| Zinc | 110.00 | 90.00 | 54.00 | 57.00 | 56.00 | 67.00 | 52.00 | 37.00 | 65.00 | 140.00 |
| Benzene | <0.005 | 0.021 | | | <0.005 | <0.005 | <0.005 | <0.005 | 0.015 | 0.056 |
| Toluene | <0.005 | 0.019 | | | <0.005 | <0.005 | <0.005 | <0.005 | 0.014 | 0.021 |
| Ethylbenzene | <0.005 | <0.005 | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.086 |
| Xylene (p & m-Xylene) | <0.008 | <0.008 | | | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | 0.050 |
| Xylene (o-Xylene) | <0.005 | <0.005 | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.085 |
| Methyl tert-butyl ether | | | | | | | | | | <0.005 |
| TPH (C10 - C40) | 18.00 | 520.00 | <10 | <10 | 30.00 | 31.00 | <10 | <10 | 70.00 | |
| Aliphatic C5 - C6 | | | | | | | | | | <0.01 |
| Aliphatic C6 - C8 | | | | | | | | | | <0.01 |
| Aliphatic C8 – C10 | | | | | | | | | | <0.01 |
| Aliphatic C10 – C12 | | | | | | | | | | 2.00 |
| Aliphatic C12 – C16 | | | | | | | | | | 7.80 |
| Aliphatic C16 – C21 | | | | | | | | | | 28.00 |
| Aliphatic C21 – C35 | | | | | | | | | | 200.00 |
| Aliphatic C5 – C35 | | | | | | | | | | 240.00 |
| Aromatic C5 - C7 | | | | | | | | | | 0.056 |
| Aromatic C7 - C8 | | | | | | | | | | 0.021 |
| Aromatic C8 – C10 | | | | | | | | | | 0.27 |
| Aromatic C10 – C12 | | | | | | | | | | 2.60 |
| Aromatic C12 – C16 | | | | | | | | | | 34.00 |
| Aromatic C16 – C21 | | | | | | | | | | 65.00 |
| Aromatic C21 – C35 | | | | | | | | | | 160.00 |
| Aromatic C5 – C35 | | | | | | | | | | 260.00 |

| Sample Location | MW25-22 | TP25-10 | TP25-11 | TP25-12 | TP25-13 | VW25-11A | MW25-23B | TP25-24 | MW25-25 | TP25-25 |
|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | GH3 | GH3 | GH3 | GH3 | GH3 | GH3 | GHA | GHA | GHB | GHB |
| Depth (m bgl) | 0.50 | 0.20 | 0.30 | 0.20 | 0.50 | 0.15 | 0.80 | 0.30 | 0.30 | 0.30 |
| Date Sampled | 17/02/2025 | 06/02/2025 | 07/02/2025 | 07/02/2025 | 07/02/2025 | 12/02/2025 | 18/02/2025 | 13/02/2025 | 19/02/2025 | 14/02/2025 |
| Stratum | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR |
| Stone Content | 19.50 | 50.10 | 61.60 | 66.70 | <0.1 | 37.30 | <0.1 | 65.70 | 17.10 | <0.1 |
| Moisture Content | 15.00 | 6.00 | 6.10 | 3.60 | 15.00 | 4.50 | 13.00 | 6.30 | 16.00 | 18.00 |
| Total mass of sample received | 0.50 | 0.60 | 0.60 | 0.60 | 0.60 | 0.90 | 0.50 | 0.60 | 0.60 | 0.60 |
| Asbestos in Soil | Detected | Not-detected | Not-detected | Not-detected | - | - | Not-detected | Not-detected | Not-detected | Not-detected |
| Asbestos in Soil Screen / Identification Name | Amosite, Chrysotile | | | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | Loose Fibres | | | | | | | | | |
| Asbestos Quantification Total | 0.0010 | | | | | | | | | |
| pH | 8.70 | 7.00 | 9.20 | 9.60 | 8.30 | 9.40 | 9.70 | 10.20 | 8.20 | 7.90 |
| Water Soluble SO4 16hr extraction (2:1) | 360.00 | 520.00 | 110.00 | 70.00 | 920.00 | 85.00 | 590.00 | 140.00 | 92.00 | 40.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 182.00 | 258.00 | 52.70 | 35.00 | 462.00 | 42.20 | 293.00 | 69.20 | 45.80 | 20.10 |
| Sulphide | 37.00 | 6.80 | <1 | <1 | 21.00 | 1.80 | 7.70 | <1 | <1 | <1 |
| Ammonium as NH4 | 3.10 | <0.5 | <0.5 | <0.5 | 8.90 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Organic Matter | 1.90 | 0.40 | 1.0 | 1.80 | 1.90 | 0.40 | 1.0 | 1.0 | 2.40 | 3.20 |
| Total Organic Carbon (TOC) | 1.10 | | | | | | | | | |
| Loss on Ignition | 3.70 | 1.60 | 1.50 | 1.90 | 3.60 | 1.20 | 2.10 | 1.20 | 4.30 | 4.90 |
| Cyanide (Total) (as CN) | 16.00 | <1 | <1 | <1 | 30.00 | <1 | 1.90 | 1.50 | <1 | <1 |
| Complexed cyanide | 16.00 | <1 | <1 | <1 | 30.00 | <1 | 1.90 | 1.50 | <1 | <1 |
| Easily liberatable cyanide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloride | 110.00 | 12.00 | 27.00 | 18.00 | 47.00 | 5.50 | 27.00 | 13.00 | 3.90 | 4.40 |
| Sulphur (Elemental) | 190.00 | <5 | 8.30 | 8.80 | 140.00 | 8.50 | <5 | <5 | 19.00 | 7.70 |
| Catechol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | 30.00 | 0.10 | 0.36 | <0.05 | 18.00 | <0.05 | 1.0 | 0.16 | 0.19 | 0.29 |
| Acenaphthylene | 9.90 | <0.05 | 0.090 | <0.05 | 7.40 | <0.05 | 1.0 | 0.69 | <0.05 | 0.42 |
| Acenaphthene | 5.30 | <0.05 | <0.05 | <0.05 | 3.00 | <0.05 | 0.10 | 0.11 | <0.05 | 0.060 |
| Fluorene | 9.80 | <0.05 | <0.05 | <0.05 | 8.40 | <0.05 | 0.32 | 0.13 | <0.05 | 0.17 |
| Phenanthrene | 24.00 | 0.090 | 0.36 | 0.19 | 23.00 | 0.080 | 3.00 | 1.20 | 0.050 | 2.00 |
| Anthracene | 5.60 | <0.05 | 0.11 | <0.05 | 6.10 | <0.05 | 0.90 | 0.39 | <0.05 | 0.97 |
| Fluoranthene | 8.30 | 0.080 | 1.50 | 0.66 | 11.00 | 0.25 | 5.20 | 3.70 | 0.060 | 4.60 |
| Pyrene | 9.90 | 0.060 | 1.60 | 0.60 | 12.00 | 0.21 | 4.70 | 3.40 | 0.080 | 4.50 |
| Benzo[a]anthracene | 4.50 | <0.05 | 0.81 | 0.32 | 5.50 | 0.12 | 3.00 | 1.90 | <0.05 | 2.80 |
| Chrysene | 4.50 | <0.05 | 0.97 | 0.40 | 5.50 | 0.14 | 3.20 | 2.00 | <0.05 | 2.90 |
| Benzo[b]fluoranthene | 2.90 | <0.05 | 1.40 | 0.37 | 5.00 | 0.17 | 4.70 | 4.10 | <0.05 | 2.90 |
| Benzo[k]fluoranthene | 1.40 | <0.05 | 0.44 | 0.14 | 1.50 | 0.060 | 1.80 | 1.80 | <0.05 | 1.50 |
| Benzo[a]pyrene | 2.90 | <0.05 | 1.10 | 0.24 | 4.50 | 0.15 | 4.00 | 3.80 | <0.05 | 2.60 |
| Indeno[1,2,3-cd]pyrene | 1.10 | <0.05 | 0.68 | <0.05 | 1.80 | 0.070 | 2.30 | 2.50 | <0.05 | 1.20 |
| Dibenz(a,h)anthracene | 0.32 | <0.05 | 0.17 | <0.05 | 0.38 | <0.05 | 0.51 | 0.45 | <0.05 | 0.34 |
| Benzo[ghi]perylene | 1.20 | <0.05 | 0.77 | <0.05 | 2.00 | 0.080 | 2.50 | 2.80 | <0.05 | 1.30 |
| PAH 16 Total | 122.00 | <0.8 | 10.50 | 2.92 | 115.00 | 1.33 | 38.30 | 29.10 | <0.8 | 28.60 |
| Arsenic | 11.00 | 36.00 | 15.00 | 2.10 | 15.00 | 14.00 | 15.00 | 7.30 | 12.00 | 9.30 |
| Boron | 3.20 | 0.50 | 0.60 | 0.30 | 1.30 | 0.50 | 2.10 | 0.80 | 1.40 | 1.30 |
| Cadmium | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.50 | <0.2 | 0.30 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | |
| Chromium (Total) | 50.00 | 38.00 | 26.00 | 13.00 | 32.00 | 28.00 | 20.00 | 11.00 | 30.00 | 25.00 |
| Copper | 44.00 | 61.00 | 41.00 | 26.00 | 56.00 | 41.00 | 28.00 | 15.00 | 21.00 | 35.00 |
| Lead | 66.00 | 21.00 | 26.00 | 6.60 | 80.00 | 9.40 | 51.00 | 22.00 | 29.00 | 32.00 |
| Mercury (inorganic) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel | 34.00 | 30.00 | 21.00 | 13.00 | 27.00 | 22.00 | 16.00 | 8.40 | 25.00 | 18.00 |
| Selenium | 1.0 | 7.10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Zinc | 100.00 | 50.00 | 83.00 | 49.00 | 120.00 | 91.00 | 78.00 | 52.00 | 77.00 | 77.00 |
| Benzene | 0.070 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | 0.012 | <0.005 |
| Toluene | 0.025 | <0.005 | <0.005 | <0.005 | <0.005 | | 0.010 | <0.005 | 0.012 | <0.005 |
| Ethylbenzene | 0.18 | <0.005 | <0.005 | <0.005 | 0.15 | | <0.005 | <0.005 | <0.005 | <0.005 |
| Xylene (p & m-Xylene) | 0.12 | <0.008 | <0.008 | <0.008 | 0.073 | | <0.008 | <0.008 | <0.008 | <0.008 |
| Xylene (o-Xylene) | 0.19 | <0.005 | <0.005 | <0.005 | 0.11 | | <0.005 | <0.005 | <0.005 | <0.005 |
| Methyl tert-butyl ether | <0.005 | | | <0.005 | | | | | | |
| TPH (C10 - C40) | | <10 | 44.00 | 830.00 | 220.00 | <10 | 69.00 | 120.00 | <10 | 60.00 |
| Aliphatic C5 - C6 | <0.01 | | | <0.01 | | | | | | |
| Aliphatic C6 - C8 | <0.01 | | | <0.01 | | | | | | |
| Aliphatic C8 – C10 | <0.01 | | | <0.01 | | | | | | |
| Aliphatic C10 – C12 | 2.20 | | | 3.70 | | | | | | |
| Aliphatic C12 – C16 | 36.00 | | | 8.50 | | | | | | |
| Aliphatic C16 – C21 | 62.00 | | | 41.00 | | | | | | |
| Aliphatic C21 – C35 | 94.00 | | | 310.00 | | | | | | |
| Aliphatic C5 – C35 | 190.00 | | | 360.00 | | | | | | |
| Aromatic C5 - C7 | 0.073 | | | <0.01 | | | | | | |
| Aromatic C7 - C8 | 0.029 | | | <0.01 | | | | | | |
| Aromatic C8 – C10 | 0.59 | | | <0.02 | | | | | | |
| Aromatic C10 – C12 | 22.00 | | | <1 | | | | | | |
| Aromatic C12 – C16 | 110.00 | | | 2.20 | | | | | | |
| Aromatic C16 – C21 | 100.00 | | | 24.00 | | | | | | |
| Aromatic C21 – C35 | 47.00 | | | 300.00 | | | | | | |
| Aromatic C5 – C35 | 280.00 | | | 330.00 | | | | | | |
| Chloromethane | <0.005 | | | | | | | | | |
| Chloroethane | <0.005 | | | | | | | | | |
| Bromomethane | <0.005 | | | | | | | | | |
| Vinyl chloride (Chloroethene) | <0.005 | | | | | | | | | |
| Trichlorofluoromethane | <0.005 | | | | | | | | | |
| 1,1-Dichloroethene | <0.005 | | | | | | | | | |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | <0.005 | | | | | | | | | |
| Trans 1,2 Dichloroethene | <0.005 | | | | | | | | | |
| 1,1-Dichloroethane | <0.005 | | | | | | | | | |
| 2,2-Dichloropropane | <0.005 | | | | | | | | | |
| Trichloromethane (Chloroform) | <0.005 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | <0.005 | | | | | | | | | |
| 1,2-Dichloroethane | <0.007 | | | | | | | | | |
| 1,1-Dichloropropene | <0.005 | | | | | | | | | |
| Cis 1,2 Dichloroethene | <0.005 | | | | | | | | | |
| Carbon tetrachloride (Tetrachloromethane) | <0.005 | | | | | | | | | |
| 1,2-Dichloropropane | <0.006 | | | | | | | | | |
| Trichloroethylene | <0.01 | | | | | | | | | |
| Dibromomethane | <0.005 | | | | | | | | | |
| Bromodichloromethane | <0.005 | | | | | | | | | |
| Cis-1,3-dichloropropene | <0.005 | | | | | | | | | |
| Trans-1,3-dichloropropene | <0.01 | | | | | | | | | |
| 1,1,2 Trichloroethane | <0.006 | | | | | | | | | |
| 1,3-Dichloropropane | <0.005 | | | | | | | | | |
| Dibromochloromethane | <0.005 | | | | | | | | | |
| Tetrachloroethylene | <0.005 | | | | | | | | | |
| 1,2-Dibromoethane | <0.005 | | | | | | | | | |
| ChloroBenzene | <0.005 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | <0.005 | | | | | | | | | |
| Styrene | <0.005 | | | | | | | | | |
| Bromoform | <0.005 | | | | | | | | | |
| Iso-propylbenzene | 0.0099 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | <0.005 | | | | | | | | | |
| Bromobenzene | <0.005 | | | | | | | | | |
| n-Propylbenzene | 0.0096 | | | | | | | | | |
| 2-Chlorotoluene | <0.005 | | | | | | | | | |
| 4-Chlorotoluene | <0.005 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | 0.087 | | | | | | | | | |
| tert-Butylbenzene | <0.005 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 0.27 | | | | | | | | | |
| sec-Butylbenzene | <0.005 | | | | | | | | | |
| 1,3-dichlorobenzene | <0.005 | | | | | | | | | |
| p-Isopropyltoluene | <0.005 | | | | | | | | | |
| 1,4-dichlorobenzene | | | | | | | | | | |
| 1,2-dichlorobenzene | <0.005 | | | | | | | | | |
| Butylbenzene | <0.005 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <0.008 | | | | | | | | | |
| 1,2,4-trichlorobenzene | <0.005 | | | | | | | | | |
| Hexachlorobutadiene | <0.005 | | | | | | | | | |
| 1,2,3-trichlorobenzene | <0.005 | | | | | | | | | |
| Aniline | <0.1 | | | | | | | | | |
| Phenol | <0.2 | | | | | | | | | |
| 2-chlorophenol | <0.1 | | | | | | | | | |
| Bis(2-chloroethyl)ether | <0.2 | | | | | | | | | |
| 1,3-dichlorobenzene | <0.2 | | | | | | | | | |
| 1,2-dichlorobenzene | <0.1 | | | | | | | | | |
| 1,4-dichlorobenzene | <0.2 | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | <0.1 | | | | | | | | | |
| 2-Methylphenol | <0.3 | | | | | | | | | |
| Hexachloroethane | <0.05 | | | | | | | | | |
| Nitrobenzene | <0.3 | | | | | | | | | |
| 4-Methylphenol | <0.2 | | | | | | | | | |
| Isophorone | <0.2 | | | | | | | | | |
| 2-Nitrophenol | <0.3 | | | | | | | | | |
| 2,4-Dimethylphenol | <0.3 | | | | | | | | | |
| Bis(2-chloroethoxy)methane | <0.3 | | | | | | | | | |
| 1,2,4-trichlorobenzene | <0.3 | | | | | | | | | |
| 2,4-Dichlorophenol | <0.3 | | | | | | | | | |
| 4-Chloroaniline | <0.1 | | | | | | | | | |
| Hexachlorobutadiene | <0.1 | | | | | | | | | |
| 4-Chloro-3-methylphenol | <0.1 | | | | | | | | | |
| 2,4,6-Trichlorophenol | <0.1 | | | | | | | | | |
| 2,4,5-Trichlorophenol | <0.2 | | | | | | | | | |
| 2-Methylnaphthalene | 16.00 | | | | | | | | | |
| 2-Chloronaphthalene | <0.1 | | | | | | | | | |
| Dimethylphthalate | <0.1 | | | | | | | | | |
| 2,6-Dinitrotoluene | <0.1 | | | | | | | | | |
| 2,4-Dinitrotoluene | <0.2 | | | | | | | | | |
| Dibenzofuran | 1.30 | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | <0.3 | | | | | | | | | |
| Diethyl phthalate | <0.2 | | | | | | | | | |
| 4-Nitroaniline | <0.2 | | | | | | | | | |
| Azobenzene | <0.3 | | | | | | | | | |
| Bromophenyl phenyl ether | <0.2 | | | | | | | | | |
| Hexachlorobenzene | <0.3 | | | | | | | | | |
| Carbazole | <0.3 | | | | | | | | | |
| Dibutyl phthalate | <0.2 | | | | | | | | | |
| Anthraquinone | 2.30 | | | | | | | | | |
| Butyl benzyl phthalate | <0.3 | | | | | | | | | |

| Sample Location | MW25-18 | MW25-11 | TP25-21 | VW25-01 | MW25-09C | MW25-14 | MW25-12 | MW25-12 | MW25-16A | MW25-21 |
|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Tar well | Primary purifiers | Primary purifiers | Primary purifiers | Brick structure | Purifier Catch box | Oxide shed | Oxide shed | Scrubbers | Boiler house |
| Depth (m bgl) | 0.25 | 0.20 | 0.40 | 0.80 | 0.10 | 0.60 | 0.05 | 0.30 | 0.30 | 0.30 |
| Date Sampled | 13/02/2025 | 10/02/2025 | 12/02/2025 | 06/02/2025 | 07/02/2025 | 11/02/2025 | 11/02/2025 | 11/02/2025 | 12/02/2025 | 17/02/2025 |
| Stratum | MGR | MGR | MGR | MGR | MGR | MGR | Tarmac | MGR | MGR | MGR |
| Stone Content | <0.1 | <0.1 | 47.30 | <0.1 | <0.1 | 25.60 | 56.70 | 35.40 | 29.20 | 6.10 |
| Moisture Content | 7.90 | 15.00 | 5.40 | 17.00 | 10.00 | 15.00 | 1.20 | 9.30 | 14.00 | 12.00 |
| Total mass of sample received | 0.60 | 0.60 | 0.80 | 0.60 | 0.60 | 0.70 | 0.80 | 0.70 | 0.70 | 0.50 |
| Asbestos in Soil | Not-detected | Detected | - | - | Detected | - | - | Detected | Not-detected | Not-detected |
| Asbestos in Soil Screen / Identification Name | | Amosite | | | Chrysotile | | | Chrysotile | | |
| Asbestos Containing Material Types Detected (ACM) | | Loose Fibres | | | Loose Fibres | | | Loose Fibres | | |
| Asbestos Quantification Total | | <0.001 | | | <0.001 | | | <0.001 | | |
| pH | 8.30 | 7.80 | 9.40 | 8.10 | 7.90 | 8.60 | | 8.50 | 7.50 | 10.00 |
| Water Soluble SO4 16hr extraction (2:1) | 10.00 | 3900.00 | 1500.00 | 3300.00 | 3600.00 | 3400.00 | | 3600.00 | 3400.00 | 94.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 5.03 | 1940.00 | 750.00 | 1660.00 | 1810.00 | 1700.00 | | 1800.00 | 1680.00 | 47.10 |
| Sulphide | <1 | 31.00 | 12.00 | 5.10 | 6.30 | 3.70 | | 42.00 | 5.30 | <1 |
| Ammonium as NH4 | <0.5 | 0.80 | <0.5 | 0.70 | <0.5 | 0.50 | | <0.5 | <0.5 | <0.5 |
| Organic Matter | <0.1 | 2.50 | 1.50 | 2.50 | 2.10 | 0.80 | | 1.20 | 1.0 | 0.40 |
| Total Organic Carbon (TOC) | | | | | | | | | | |
| Loss on Ignition | 0.40 | 3.30 | 2.10 | 5.30 | 3.40 | 2.60 | | 2.70 | 3.60 | 1.60 |
| Cyanide (Total) (as CN) | <1 | 140.00 | 3.80 | 260.00 | 21.00 | 23.00 | | 160.00 | 15.00 | <1 |
| Complexed cyanide | <1 | 140.00 | 3.80 | 250.00 | 21.00 | 23.00 | | 160.00 | 15.00 | <1 |
| Easily liberatable cyanide | <1 | <1 | <1 | 4.50 | <1 | <1 | | 3.50 | <1 | <1 |
| Thiocyanate | <5 | <5 | <5 | 8.90 | <5 | <5 | | <5 | <5 | <5 |
| Chloride | <1 | 36.00 | 41.00 | 29.00 | 4.80 | 43.00 | | 330.00 | 52.00 | 57.00 |
| Sulphur (Elemental) | <5 | 460.00 | 360.00 | 49.00 | 18.00 | 26.00 | | 170.00 | 330.00 | 8.10 |
| Catechol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | <0.1 | <0.1 |
| Resorcinol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | | <0.3 | <0.3 | <0.3 |
| Naphthols | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | <0.1 | <0.1 |
| Phenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | | <0.4 | <0.4 | <0.4 |
| Naphthalene | <0.05 | 0.84 | 7.20 | 0.31 | 1.40 | 0.56 | <0.05 | 0.39 | <0.05 | <0.05 |
| Acenaphthylene | <0.05 | 0.52 | <0.05 | 0.67 | 0.71 | 0.51 | 0.15 | 0.50 | 0.48 | <0.05 |
| Acenaphthene | <0.05 | 0.57 | 0.19 | 0.13 | 0.32 | 0.12 | 0.20 | 0.11 | <0.05 | <0.05 |
| Fluorene | <0.05 | 0.75 | 0.26 | 0.33 | 0.48 | 0.15 | <0.05 | 0.27 | 0.070 | <0.05 |
| Phenanthrene | <0.05 | 7.70 | 1.10 | 4.90 | 5.90 | 1.50 | 1.50 | 2.30 | 0.64 | 0.12 |
| Anthracene | <0.05 | 2.60 | 0.35 | 1.30 | 1.50 | 0.40 | 0.29 | 0.90 | 0.29 | <0.05 |
| Fluoranthene | <0.05 | 17.00 | 1.20 | 9.20 | 11.00 | 3.40 | 2.90 | 3.90 | 2.10 | 0.18 |
| Pyrene | <0.05 | 15.00 | 1.10 | 7.70 | 9.70 | 2.90 | 2.90 | 3.40 | 2.00 | 0.16 |
| Benzo[a]anthracene | <0.05 | 7.30 | 0.44 | 4.50 | 5.60 | 1.50 | 0.89 | 2.00 | 1.70 | 0.10 |
| Chrysene | <0.05 | 7.30 | 0.52 | 4.10 | 5.40 | 1.60 | 1.40 | 2.00 | 1.70 | 0.10 |
| Benzo[b]fluoranthene | <0.05 | 8.70 | 0.82 | 5.80 | 8.00 | 2.20 | 0.90 | 2.80 | 4.10 | 0.11 |
| Benzo[k]fluoranthene | <0.05 | 4.50 | 0.28 | 1.90 | 3.10 | 1.20 | 0.26 | 0.97 | 1.80 | 0.060 |
| Benzo[a]pyrene | <0.05 | 8.20 | 0.70 | 4.40 | 6.80 | 1.70 | 0.73 | 2.30 | 2.80 | 0.12 |
| Indeno[1,2,3-cd]pyrene | <0.05 | 4.20 | 0.81 | 2.20 | 3.90 | 1.50 | 0.54 | 1.60 | 2.90 | <0.05 |
| Dibenz(a,h)anthracene | <0.05 | 0.75 | 0.17 | 0.44 | 0.72 | 0.30 | <0.05 | 0.34 | 0.60 | <0.05 |
| Benzo[ghi]perylene | <0.05 | 4.50 | 1.10 | 2.30 | 4.20 | 1.70 | 0.62 | 1.70 | 3.30 | 0.070 |
| PAH 16 Total | <0.8 | 90.00 | 16.20 | 50.20 | 68.90 | 21.20 | 13.20 | 25.40 | 24.50 | 1.02 |
| Arsenic | 4.10 | 24.00 | 7.50 | 59.00 | 24.00 | 47.00 | | 21.00 | 16.00 | 8.90 |
| Boron | 0.60 | 2.20 | 0.70 | 1.50 | 0.60 | 3.40 | | 1.50 | 1.20 | 0.80 |
| Cadmium | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | |
| Chromium (Total) | 10.00 | 44.00 | 86.00 | 36.00 | 26.00 | 23.00 | | 26.00 | 19.00 | 23.00 |
| Copper | 6.50 | 51.00 | 49.00 | 72.00 | 58.00 | 41.00 | | 45.00 | 29.00 | 15.00 |
| Lead | 4.50 | 130.00 | 23.00 | 290.00 | 370.00 | 140.00 | | 69.00 | 140.00 | 13.00 |
| Mercury (inorganic) | <0.3 | 0.40 | <0.3 | 7.00 | 2.40 | 1.30 | | 0.40 | <0.3 | <0.3 |
| Nickel | 5.90 | 33.00 | 53.00 | 29.00 | 28.00 | 16.00 | | 27.00 | 16.00 | 15.00 |
| Selenium | <1 | <1 | <1 | 1.80 | <1 | <1 | | <1 | <1 | <1 |
| Zinc | 15.00 | 97.00 | 87.00 | 240.00 | 130.00 | 320.00 | | 78.00 | 85.00 | 67.00 |
| Benzene | <0.005 | <0.005 | | <0.005 | <0.005 | | | | | <0.005 |
| Toluene | <0.005 | <0.005 | | 0.024 | <0.005 | | | | | <0.005 |
| Ethylbenzene | <0.005 | <0.005 | | <0.005 | <0.005 | | | | | <0.005 |
| Xylene (p & m-Xylene) | <0.008 | <0.008 | | <0.008 | <0.008 | | | | | <0.008 |
| Xylene (o-Xylene) | <0.005 | <0.005 | | <0.005 | <0.005 | | | | | <0.005 |
| Methyl tert-butyl ether | | | | <0.005 | | | | | | |
| TPH (C10 - C40) | <10 | 200.00 | 150.00 | 190.00 | 93.00 | 71.00 | | 210.00 | 150.00 | <10 |
| Aliphatic C5 - C6 | | | | <0.01 | | | | | | |
| Aliphatic C6 - C8 | | | | <0.01 | | | | | | |
| Aliphatic C8 – C10 | | | | <0.01 | | | | | | |
| Aliphatic C10 – C12 | | | | <1 | | | | | | |
| Aliphatic C12 – C16 | | | | 4.50 | | | | | | |
| Aliphatic C16 – C21 | | | | 27.00 | | | | | | |
| Aliphatic C21 – C35 | | | | 63.00 | | | | | | |
| Aliphatic C5 – C35 | | | | 95.00 | | | | | | |
| Aromatic C5 - C7 | | | | <0.01 | | | | | | |
| Aromatic C7 - C8 | | | | 0.025 | | | | | | |
| Aromatic C8 – C10 | | | | <0.02 | | | | | | |
| Aromatic C10 – C12 | | | | 2.40 | | | | | | |
| Aromatic C12 – C16 | | | | 8.70 | | | | | | |
| Aromatic C16 – C21 | | | | 26.00 | | | | | | |
| Aromatic C21 – C35 | | | | 40.00 | | | | | | |
| Aromatic C5 – C35 | | | | 78.00 | | | | | | |
| Coal tar | | | | | | | 3400.00 | | | |
| Chloromethane | | | | <0.005 | | | | | | |
| Chloroethane | | | | <0.005 | | | | | | |
| Bromomethane | | | | <0.005 | | | | | | |
| Vinyl chloride (Chloroethene) | | | | <0.005 | | | | | | |
| Trichlorofluoromethane | | | | <0.005 | | | | | | |
| 1,1-Dichloroethene | | | | <0.005 | | | | | | |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | | | | <0.005 | | | | | | |
| Trans 1,2 Dichloroethene | | | | <0.005 | | | | | | |
| 1,1-Dichloroethane | | | | <0.005 | | | | | | |
| 2,2-Dichloropropane | | | | <0.005 | | | | | | |
| Trichloromethane (Chloroform) | | | | <0.005 | | | | | | |
| 1,1,1-Trichloroethane (TCA) | | | | <0.005 | | | | | | |
| 1,2-Dichloroethane | | | | <0.007 | | | | | | |
| 1,1-Dichloropropene | | | | <0.005 | | | | | | |
| Cis 1,2 Dichloroethene | | | | <0.005 | | | | | | |
| Carbon tetrachloride (Tetrachloromethane) | | | | <0.005 | | | | | | |
| 1,2-Dichloropropane | | | | <0.006 | | | | | | |
| Trichloroethylene | | | | <0.01 | | | | | | |
| Dibromomethane | | | | <0.005 | | | | | | |
| Bromodichloromethane | | | | <0.005 | | | | | | |
| Cis-1,3-dichloropropene | | | | <0.005 | | | | | | |
| Trans-1,3-dichloropropene | | | | <0.01 | | | | | | |
| 1,1,2 Trichloroethane | | | | <0.006 | | | | | | |
| 1,3-Dichloropropane | | | | <0.005 | | | | | | |
| Dibromochloromethane | | | | <0.005 | | | | | | |
| Tetrachloroethylene | | | | <0.005 | | | | | | |
| 1,2-Dibromoethane | | | | <0.005 | | | | | | |
| ChloroBenzene | | | | <0.005 | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | | | | <0.005 | | | | | | |
| Styrene | | | | <0.005 | | | | | | |
| Bromoform | | | | <0.005 | | | | | | |
| Iso-propylbenzene | | | | <0.005 | | | | | | |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | | | | <0.005 | | | | | | |
| Bromobenzene | | | | <0.005 | | | | | | |
| n-Propylbenzene | | | | <0.005 | | | | | | |
| 2-Chlorotoluene | | | | <0.005 | | | | | | |
| 4-Chlorotoluene | | | | <0.005 | | | | | | |
| 1,3,5-Trimethylbenzene | | | | <0.005 | | | | | | |
| tert-Butylbenzene | | | | <0.005 | | | | | | |
| 1,2,4-Trimethylbenzene | | | | <0.005 | | | | | | |
| sec-Butylbenzene | | | | <0.005 | | | | | | |
| 1,3-dichlorobenzene | | | | <0.005 | | | | | | |
| p-Isopropyltoluene | | | | <0.005 | | | | | | |
| 1,4-dichlorobenzene | | | | | | | | | | |
| 1,2-dichlorobenzene | | | | <0.005 | | | | | | |
| Butylbenzene | | | | <0.005 | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | | <0.008 | | | | | | |
| 1,2,4-trichlorobenzene | | | | <0.005 | | | | | | |
| Hexachlorobutadiene | | | | <0.005 | | | | | | |
| 1,2,3-trichlorobenzene | | | | <0.005 | | | | | | |
| Aniline | | | | <0.1 | | | | | | |
| Phenol | | | | <0.2 | | | | | | |
| 2-chlorophenol | | | | <0.1 | | | | | | |
| Bis(2-chloroethyl)ether | | | | <0.2 | | | | | | |
| 1,3-dichlorobenzene | | | | <0.2 | | | | | | |
| 1,2-dichlorobenzene | | | | <0.1 | | | | | | |
| 1,4-dichlorobenzene | | | | <0.2 | | | | | | |
| Bis(2-chloroisopropyl)ether | | | | <0.1 | | | | | | |
| 2-Methylphenol | | | | <0.3 | | | | | | |
| Hexachloroethane | | | | <0.05 | | | | | | |
| Nitrobenzene | | | | <0.3 | | | | | | |
| 4-Methylphenol | | | | <0.2 | | | | | | |
| Isophorone | | | | <0.2 | | | | | | |
| 2-Nitrophenol | | | | <0.3 | | | | | | |
| 2,4-Dimethylphenol | | | | <0.3 | | | | | | |
| Bis(2-chloroethoxy)methane | | | | <0.3 | | | | | | |
| 1,2,4-trichlorobenzene | | | | <0.3 | | | | | | |
| 2,4-Dichlorophenol | | | | <0.3 | | | | | | |
| 4-Chloroaniline | | | | <0.1 | | | | | | |
| Hexachlorobutadiene | | | | <0.1 | | | | | | |
| 4-Chloro-3-methylphenol | | | | <0.1 | | | | | | |
| 2,4,6-Trichlorophenol | | | | <0.1 | | | | | | |
| 2,4,5-Trichlorophenol | | | | <0.2 | | | | | | |
| 2-Methylnaphthalene | | | | 0.60 | | | | | | |
| 2-Chloronaphthalene | | | | <0.1 | | | | | | |
| Dimethylphthalate | | | | <0.1 | | | | | | |
| 2,6-Dinitrotoluene | | | | <0.1 | | | | | | |
| 2,4-Dinitrotoluene | | | | <0.2 | | | | | | |
| Dibenzofuran | | | | 0.50 | | | | | | |
| 4-Chlorophenyl phenyl ether | | | | <0.3 | | | | | | |
| Diethyl phthalate | | | | <0.2 | | | | | | |
| 4-Nitroaniline | | | | <0.2 | | | | | | |
| Azobenzene | | | | <0.3 | | | | | | |
| Bromophenyl phenyl ether | | | | <0.2 | | | | | | |
| Hexachlorobenzene | | | | <0.3 | | | | | | |
| Carbazole | | | | 0.40 | | | | | | |
| Dibutyl phthalate | | | | <0.2 | | | | | | |
| Anthraquinone | | | | 0.80 | | | | | | |
| Butyl benzyl phthalate | | | | <0.3 | | | | | | |

| Sample Location | MW25-27 | MW25-29 | VW25-12 | MW25-31A | MW25-32 | VW25-18 | MW25-34 | VW25-19A | MW25-15A | MW25-15C |
|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Retort house | Exhauster | Exhauster | Meter house | Benzol washer | Benzol washer | Tank | Former feature | Former feature | Former feature |
| Depth (m bgl) | 0.50 | 0.30 | 0.30 | 0.15 | 0.10 | 0.30 | 0.40 | 0.20 | 0.30 | 0.70 |
| Date Sampled | 19/02/2025 | 20/02/2025 | 13/02/2025 | 21/02/2025 | 24/02/2025 | 18/02/2025 | 25/02/2025 | 19/02/2025 | 12/02/2025 | 25/02/2025 |
| Stratum | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR |
| Stone Content | 22.90 | 40.70 | 72.40 | <0.1 | 39.60 | <0.1 | 38.00 | 22.30 | 35.10 | <0.1 |
| Moisture Content | 12.00 | 11.00 | 7.10 | 6.70 | 9.60 | 12.00 | 5.70 | 14.00 | 20.00 | 15.00 |
| Total mass of sample received | 0.50 | 0.80 | 0.60 | 0.70 | 0.70 | 0.50 | 0.60 | 0.50 | 0.80 | 0.60 |
| Asbestos in Soil | Detected | Detected | - | Not-detected | Not-detected | Not-detected | - | Detected | Not-detected | Not-detected |
| Asbestos in Soil Screen / Identification Name | Amosite, Chrysotile | Amosite | | | | | | Chrysotile | | |
| Asbestos Containing Material Types Detected (ACM) | Loose Fibres & Fibrous Debris | Loose Fibres | | | | | | Loose Fibres | | |
| Asbestos Quantification Total | 0.018 | <0.001 | | | | | | <0.001 | | |
| pH | 7.30 | 7.50 | 9.00 | 8.80 | 11.80 | 10.40 | 8.70 | 8.20 | 7.60 | 7.60 |
| Water Soluble SO4 16hr extraction (2:1) | 4400.00 | 1800.00 | 250.00 | 140.00 | 400.00 | 4300.00 | 280.00 | 110.00 | 170.00 | 3100.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 2210.00 | 909.00 | 123.00 | 68.90 | 199.00 | 2170.00 | 138.00 | 56.80 | 86.80 | 1550.00 |
| Sulphide | 4.00 | 3.70 | <1 | 1.60 | 19.00 | 12.00 | <1 | 15.00 | 12.00 | 52.00 |
| Ammonium as NH4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Organic Matter | 1.60 | 0.90 | 0.30 | 0.30 | 1.30 | 2.30 | 0.20 | 1.70 | 2.30 | 4.90 |
| Loss on Ignition | 4.10 | 1.70 | 0.60 | 0.70 | 3.50 | 4.00 | 0.90 | 3.40 | 4.10 | 8.80 |
| Cyanide (Total) (as CN) | 8.10 | 1.20 | 1.30 | 5.30 | <1 | 14.00 | 2.40 | 3.20 | 2.60 | 81.00 |
| Complexed cyanide | 8.10 | 1.20 | 1.30 | 5.30 | <1 | 14.00 | <1 | 3.20 | 2.60 | 81.00 |
| Easily liberatable cyanide | <1 | <1 | <1 | <1 | <1 | <1 | 2.20 | <1 | <1 | <1 |
| Thiocyanate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloride | 64.00 | 11.00 | 6.80 | 4.60 | 17.00 | 280.00 | 81.00 | 6.70 | 9.20 | 80.00 |
| Sulphur (Elemental) | <5 | 14.00 | <5 | 12.00 | 11.00 | 150.00 | <5 | 20.00 | 49.00 | 130.00 |
| Catechol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | 0.33 | 0.20 | 0.29 | 0.28 | 0.060 | 1.10 | 37.00 | 0.23 | 0.070 | 28.00 |
| Acenaphthylene | 1.30 | 0.17 | 0.14 | 0.11 | 0.060 | 0.32 | 0.81 | 0.41 | 0.12 | 1.90 |
| Acenaphthene | 0.10 | <0.05 | <0.05 | <0.05 | <0.05 | 0.080 | 0.28 | 0.13 | <0.05 | 0.97 |
| Fluorene | 0.25 | <0.05 | 0.13 | <0.05 | <0.05 | 0.28 | 0.33 | 0.12 | <0.05 | 1.20 |
| Phenanthrene | 3.00 | 0.73 | 0.55 | 0.24 | 0.44 | 0.52 | 0.34 | 3.90 | 0.75 | 6.00 |
| Anthracene | 1.10 | 0.21 | 0.14 | 0.060 | 0.070 | 0.19 | <0.05 | 1.0 | 0.27 | 1.90 |
| Fluoranthene | 8.70 | 1.70 | 0.47 | 0.43 | 0.53 | 1.10 | 0.37 | 7.40 | 2.50 | 9.30 |
| Pyrene | 8.30 | 1.60 | 0.39 | 0.40 | 0.47 | 1.20 | 0.35 | 6.10 | 2.20 | 8.60 |
| Benzo[a]anthracene | 5.70 | 1.0 | 0.20 | 0.35 | 0.24 | 0.67 | 0.26 | 4.10 | 1.40 | 6.90 |
| Chrysene | 5.30 | 1.20 | 0.21 | 0.34 | 0.28 | 0.76 | 0.25 | 4.10 | 1.40 | 6.30 |
| Benzo[b]fluoranthene | 11.00 | 1.70 | 0.25 | 0.53 | 0.35 | 1.30 | 0.31 | 5.70 | 1.70 | 10.00 |
| Benzo[k]fluoranthene | 3.50 | 0.54 | 0.11 | 0.22 | 0.10 | 0.54 | 0.15 | 2.50 | 0.51 | 4.50 |
| Benzo[a]pyrene | 7.60 | 1.30 | 0.21 | 0.47 | 0.29 | 1.10 | 0.23 | 4.50 | 1.20 | 10.00 |
| Indeno[1,2,3-cd]pyrene | 5.40 | 0.80 | 0.12 | 0.28 | 0.17 | 0.88 | 0.17 | 2.90 | 0.75 | 6.80 |
| Dibenz(a,h)anthracene | 0.94 | 0.22 | <0.05 | 0.070 | <0.05 | 0.17 | <0.05 | 0.75 | 0.16 | <0.05 |
| Benzo[ghi]perylene | 5.70 | 0.98 | 0.15 | 0.34 | 0.19 | 0.99 | 0.17 | 3.10 | 0.67 | 6.80 |
| PAH 16 Total | 68.00 | 12.40 | 3.37 | 4.14 | 3.26 | 11.30 | 40.80 | 47.00 | 13.70 | 109.00 |
| Arsenic | 49.00 | 41.00 | 10.00 | 12.00 | 9.10 | 11.00 | 10.00 | 27.00 | 8.70 | 17.00 |
| Boron | 2.50 | 4.20 | 0.90 | 0.70 | 4.90 | 2.40 | 1.0 | 0.80 | 1.10 | 4.50 |
| Cadmium | <0.2 | <0.2 | <0.2 | <0.2 | 0.50 | <0.2 | <0.2 | <0.2 | 0.30 | 0.70 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | |
| Chromium (Total) | 26.00 | 28.00 | 13.00 | 14.00 | 28.00 | 27.00 | 12.00 | 20.00 | 20.00 | 25.00 |
| Copper | 46.00 | 64.00 | 49.00 | 23.00 | 26.00 | 110.00 | 25.00 | 36.00 | 23.00 | 180.00 |
| Lead | 200.00 | 68.00 | 11.00 | 28.00 | 44.00 | 40.00 | 16.00 | 83.00 | 22.00 | 410.00 |
| Mercury (inorganic) | 0.70 | 0.30 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 0.70 |
| Nickel | 28.00 | 25.00 | 12.00 | 13.00 | 17.00 | 21.00 | 11.00 | 22.00 | 17.00 | 99.00 |
| Selenium | 1.10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 2.50 |
| Zinc | 210.00 | 100.00 | 46.00 | 68.00 | 190.00 | 79.00 | 52.00 | 60.00 | 57.00 | 180.00 |
| Benzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.015 | <0.005 | <0.005 | | <0.005 |
| Toluene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.014 | <0.005 | <0.005 | | <0.005 |
| Ethylbenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 |
| Xylene (p & m-Xylene) | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | | <0.008 |
| Xylene (o-Xylene) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 |
| TPH (C10 - C40) | 150.00 | <10 | <10 | 20.00 | 210.00 | 410.00 | 61.00 | 53.00 | 23.00 | 88.00 |

MGR = Made Ground

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Residential (with veg uptake C4SL) | No. Analyses | CRITERIA 1 Exceedances | Min | Mean | Max | Max ID | VW25-16A | VW25-16A | VW25-17 | VW25-25 | VW25-25 | MW25-24 | VW25-08 | VW25-08 | VW25-09 | VW25-09 | VW25-10 | VW25-13 | VW25-15 | VW25-15 | MW25-05A | MW25-05A | MW25-08 | MW25-19A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | | | | | | | | | | Former feature | Former feature | Former feature | Former feature | Former feature | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NUMBER OF SAMPLES: 68 | | | | | | | | | Depth (m bgl) | 0.25 | 0.50 | 0.25 | 0.20 | 0.80 | 0.40 | 0.30 | 0.80 | 0.30 | 0.70 | 0.25 | 0.30 | 0.25 | 0.75 | 0.02 | 0.80 | 0.50 | 0.50 |
| | | | | | | | | | Date Sampled | 18/02/2025 | 18/02/2025 | 18/02/2025 | 21/02/2025 | 21/02/2025 | 18/02/2025 | 11/02/2025 | 11/02/2025 | 12/02/2025 | 12/02/2025 | 12/02/2025 | 13/02/2025 | 17/02/2025 | 17/02/2025 | 05/02/2025 | 05/02/2025 | 06/02/2025 | 14/02/2025 |
| | | | | | | | | | Stratum | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | Tarmac | MGR | MGR | MGR |
| Stone Content | % | 0.1 | | 68 | | <0.1 | <24.5 | 72.4 | VW25-12 | <0.1 | <0.1 | <0.1 | 61.00 | <0.1 | <0.1 | 41.80 | <0.1 | 70.50 | 19.30 | 32.10 | 30.40 | <0.1 | 39.10 | <0.1 | 27.80 | <0.1 | <0.1 |
| Moisture Content | % | 0.01 | | 68 | | 1.2 | 11.61 | 52 | VW25-21 | 8.50 | 11.00 | 15.00 | 15.00 | 13.00 | 15.00 | 13.00 | 15.00 | 4.50 | 14.00 | 12.00 | 6.40 | 12.00 | 11.00 | 1.70 | 11.00 | 15.00 | 10.00 |
| Total mass of sample received | kg | 0.1 | | 68 | | 0.2 | 0.6 | 0.9 | VW25-11A | 0.50 | 0.60 | 0.50 | 0.80 | 0.80 | 0.60 | 0.80 | 0.70 | 0.70 | 0.80 | 0.70 | 0.60 | 0.60 | 0.50 | 0.80 | 0.60 | 0.80 | 0.60 |
| Asbestos in Soil | Detect | N/A | | 47 | | 0 | 0 | <0 | n/a | Not-detected | - | Not-detected | Detected | - | Detected | Detected | - | Detected | - | Not-detected | - | Not-detected | - | - | Not-detected | Detected | - |
| Asbestos in Soil Screen / Identification Name | Type | | | | | | | | | | | | Chrysotile | | Chrysotile | Amosite, Chrysotile, Crocidolite | | Chrysotile | | | | | | | | Chrysotile | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | | | | | | | | Loose Fibres | | Loose Fibres | Loose Fibres | | Loose Fibres, | | | | | | | | Loose Fibres | |
| Asbestos Quantification Total | % | 0.001 | | 15 | | <0.001 | <0.003 | 0.018 | MW25-27 | | | | <0.001 | | 0.0010 | 0.0070 | | <0.001 | | | | | | | | <0.001 | |
| pH | pH Units | N/A | | 66 | | 6.1 | 8.7 | 11.8 | MW25-32 | 8.40 | 8.20 | 7.50 | 10.90 | 8.00 | 8.20 | 8.80 | 7.90 | 8.10 | 7.60 | 9.90 | 9.00 | 8.00 | 10.90 | | 10.40 | 8.50 | 7.10 |
| Water Soluble SO4 16hr extraction (2:1) | mg.kg$^{-1}$ | 2.5 | | 66 | | 10 | 1340.9 | 4400 | MW25-27 | 16.00 | 50.00 | 340.00 | 280.00 | 66.00 | 350.00 | 90.00 | 760.00 | 85.00 | 3000.00 | 660.00 | 220.00 | 30.00 | 180.00 | | 4300.00 | 630.00 | 3200.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg.l$^{-1}$ | 1.25 | | 66 | | 5.03 | 671.14 | 2210 | MW25-27 | 8.14 | 24.80 | 172.00 | 138.00 | 33.20 | 174.00 | 44.80 | 378.00 | 42.60 | 1510.00 | 328.00 | 112.00 | 15.20 | 90.40 | | 2150.00 | 314.00 | 1580.00 |
| Sulphide | mg.kg$^{-1}$ | 1 | | 66 | | <1 | <12.4 | 160 | VW25-21 | 2.40 | 7.70 | 3.00 | 3.90 | 1.80 | 25.00 | 2.40 | 11.00 | <1 | 1.70 | 2.00 | <1 | 2.00 | 18.00 | | 70.00 | 20.00 | 2.60 |
| Ammonium as NH4 | mg.kg$^{-1}$ | 0.5 | | 66 | | <0.5 | <4 | 78 | VW25-21 | <0.5 | <0.5 | 1.70 | <0.5 | <0.5 | 1.30 | <0.5 | 1.70 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | 27.00 | 17.00 | 3.40 |
| Organic Matter | % | 0.1 | | 66 | | <0.1 | <2.1 | 19 | MW25-04A | 0.40 | 0.30 | 1.0 | 2.90 | 0.40 | 3.50 | 4.20 | 1.90 | <0.1 | 2.90 | 2.40 | 0.30 | 0.70 | 3.00 | | 2.60 | 2.00 | 3.90 |
| Total Organic Carbon (TOC) | % | 0.1 | | 8 | | 0.2 | 2.2 | 10 | VW25-21 | | 0.20 | 0.60 | 1.70 | | | | | | | | | | 1.70 | | | | |
| Loss on Ignition | % | 0.2 | | 66 | | 0.4 | 4.4 | 76 | MW25-04A | 0.90 | 1.60 | 2.20 | 4.30 | 1.30 | 4.90 | 9.60 | 3.10 | 1.0 | 4.90 | 4.40 | 0.70 | 1.90 | 4.30 | | 3.70 | 3.50 | 6.60 |
| Cyanide (Total) (as CN) | mg.kg$^{-1}$ | 1 | | 66 | | <1 | <33.3 | 670 | VW25-09 | <1 | <1 | 18.00 | 5.80 | <1 | 11.00 | 2.40 | 1.0 | 1.80 | 670.00 | <1 | <1 | <1 | <1 | | 130.00 | 9.50 | 86.00 |
| Complexed cyanide | mg.kg$^{-1}$ | 1 | 1116.3 | 66 | 0 | <1 | <33 | 660 | VW25-09 | <1 | <1 | 18.00 | 5.80 | <1 | 11.00 | 2.40 | 1.0 | 1.80 | 660.00 | <1 | <1 | <1 | <1 | | 130.00 | 7.90 | 86.00 |
| Easily liberatable cyanide | mg.kg$^{-1}$ | 1 | 1.44 | 66 | 5 | <1 | <1.2 | 8.2 | VW25-09 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | **8.20** | 1.20 | <1 | <1 | <1 | | 1.30 | **1.50** | <1 |
| Thiocyanate | mg.kg$^{-1}$ | 5 | | 66 | | <5 | <5.1 | 8.9 | VW25-01 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 5.50 | <5 | <5 | <5 | <5 | | 5.20 | 6.50 | <5 |
| Chloride | mg.kg$^{-1}$ | 1 | | 66 | | <1 | <61.5 | 540 | MW25-08 | 4.20 | 11.00 | 180.00 | 120.00 | 5.30 | 37.00 | 8.50 | 220.00 | 3.10 | 15.00 | 55.00 | 18.00 | 5.50 | 20.00 | | 330.00 | 540.00 | 83.00 |
| Sulphur (Elemental) | mg.kg$^{-1}$ | 5 | | 66 | | <5 | <136.3 | 2800 | VW25-21 | <5 | <5 | 10.00 | 12.00 | <5 | 320.00 | 12.00 | 110.00 | 8.30 | 48.00 | 8.70 | <5 | <5 | <5 | | 670.00 | 210.00 | 22.00 |
| Catechol | mg.kg$^{-1}$ | 0.1 | | 66 | | <0.1 | <0.1 | <0.1 | n/a | <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 |
| Resorcinol | mg.kg$^{-1}$ | 0.1 | | 66 | | <0.1 | <0.1 | 0.56 | MW25-13A | <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 |
| Cresols (Total) | mg.kg$^{-1}$ | 0.3 | | 66 | | <0.3 | <0.3 | <0.3 | n/a | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | | <0.3 | <0.3 | <0.3 |
| Naphthols | mg.kg$^{-1}$ | 0.2 | | 66 | | <0.2 | <0.2 | <0.2 | n/a | <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 | <0.2 | <0.2 |
| 2-Isopropylphenol | mg.kg$^{-1}$ | 0.1 | | 66 | | <0.1 | <0.1 | <0.1 | n/a | <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 |
| Phenol | mg.kg$^{-1}$ | 0.1 | 280 | 66 | 0 | <0.1 | <0.1 | 0.73 | MW25-13A | <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 |
| Trimethylphenol (2,3,5-) | mg.kg$^{-1}$ | 0.1 | | 66 | | <0.1 | <0.1 | <0.1 | n/a | <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 |
| Phenols (Total) | mg.kg$^{-1}$ | 1.4 | | 66 | | <1.4 | <1.4 | <1.4 | n/a | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | mg.kg$^{-1}$ | 0.4 | | 66 | | <0.4 | <0.4 | <0.4 | n/a | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | | <0.4 | <0.4 | <0.4 |
| Naphthalene | mg.kg$^{-1}$ | 0.05 | 15 | 68 | 5 | <0.05 | <2.8 | 37 | MW25-34 | <0.05 | 0.24 | 0.66 | 0.31 | <0.05 | 10.00 | 2.50 | <0.05 | 0.17 | 0.33 | <0.05 | 0.060 | 0.11 | 2.10 | <0.05 | 0.84 | 1.20 | 1.40 |
| Acenaphthylene | mg.kg$^{-1}$ | 0.05 | 170 | 68 | 0 | <0.05 | <0.86 | 9.9 | MW25-22 | 0.31 | 0.17 | 0.060 | 0.18 | <0.05 | 0.92 | 3.70 | 0.080 | <0.05 | 0.66 | 0.24 | 0.050 | 0.13 | 3.60 | 0.13 | 3.30 | 1.50 | 1.0 |
| Acenaphthene | mg.kg$^{-1}$ | 0.05 | 210 | 68 | 0 | <0.05 | <0.5 | 5.3 | MW25-22 | 0.070 | <0.05 | <0.05 | 0.20 | <0.05 | 0.40 | 0.32 | <0.05 | <0.05 | 0.86 | <0.05 | <0.05 | 0.080 | 4.20 | <0.05 | 1.50 | 0.46 | 0.96 |
| Fluorene | mg.kg$^{-1}$ | 0.05 | 170 | 68 | 0 | <0.05 | <0.86 | 9.8 | MW25-22 | 0.17 | 0.12 | <0.05 | 0.17 | <0.05 | 0.58 | 0.55 | <0.05 | <0.05 | 0.65 | 0.050 | <0.05 | 0.28 | 3.50 | <0.05 | 5.10 | 1.20 | 1.80 |
| Phenanthrene | mg.kg$^{-1}$ | 0.05 | 95 | 68 | 0 | <0.05 | <4.46 | 40 | VW25-15 | 1.70 | 1.30 | 0.14 | 2.30 | <0.05 | 4.70 | 5.80 | 0.30 | 0.24 | 12.00 | 0.35 | 0.26 | 2.00 | 40.00 | <0.05 | 35.00 | 7.40 | 12.00 |
| Anthracene | mg.kg$^{-1}$ | 0.05 | 2400 | 68 | 0 | <0.05 | <1.27 | 12 | VW25-15 | 0.55 | 0.37 | <0.05 | 0.57 | <0.05 | 0.64 | 2.10 | 0.11 | 0.070 | 3.50 | 0.12 | 0.060 | 0.52 | 12.00 | 0.13 | 9.70 | 1.90 | 3.50 |
| Fluoranthene | mg.kg$^{-1}$ | 0.05 | 280 | 68 | 0 | <0.05 | <6.03 | 83 | VW25-15 | 3.10 | 2.00 | 0.26 | 3.80 | <0.05 | 5.10 | 13.00 | 0.63 | 0.62 | 26.00 | 1.50 | 0.61 | 2.20 | 83.00 | 1.10 | 36.00 | 8.20 | 16.00 |
| Pyrene | mg.kg$^{-1}$ | 0.05 | 620 | 68 | 0 | <0.05 | <5.42 | 76 | VW25-15 | 3.10 | 2.00 | 0.22 | 3.20 | <0.05 | 4.10 | 12.00 | 0.56 | 0.51 | 22.00 | 2.00 | 0.50 | 1.90 | 76.00 | 1.60 | 29.00 | 7.50 | 12.00 |
| Benzo[a]anthracene | mg.kg$^{-1}$ | 0.05 | | 68 | | <0.05 | <3.02 | 50 | VW25-15 | 2.10 | 1.40 | 0.15 | 2.10 | <0.05 | 1.90 | 5.50 | 0.28 | 0.27 | 13.00 | 0.89 | 0.32 | 0.93 | 50.00 | 0.63 | 13.00 | 3.40 | 6.50 |
| Chrysene | mg.kg$^{-1}$ | 0.05 | 15 | 68 | 1 | <0.05 | <2.86 | 42 | VW25-15 | 2.10 | 1.50 | 0.14 | 2.00 | <0.05 | 2.30 | 6.10 | 0.30 | 0.27 | 12.00 | 0.82 | 0.36 | 0.94 | **42.00** | 1.10 | 13.00 | 3.00 | 6.50 |
| Benzo[b]fluoranthene | mg.kg$^{-1}$ | 0.05 | 2.6 | 68 | 24 | <0.05 | <3.87 | 62 | VW25-15 | 1.70 | 1.20 | 0.23 | 2.50 | <0.05 | 2.50 | **9.90** | 0.38 | 0.36 | **18.00** | 1.0 | 0.49 | 0.91 | **62.00** | 1.40 | **15.00** | **4.40** | **7.90** |
| Benzo[k]fluoranthene | mg.kg$^{-1}$ | 0.05 | 77 | 68 | 0 | <0.05 | <1.57 | 29 | VW25-15 | 0.97 | 0.70 | 0.060 | 0.87 | <0.05 | 0.95 | 2.90 | 0.12 | 0.16 | 5.70 | 0.44 | 0.11 | 0.42 | 29.00 | 0.47 | 7.00 | 1.50 | 2.50 |
| Benzo[a]pyrene | mg.kg$^{-1}$ | 0.05 | 4.96 | 68 | 11 | <0.05 | <3.45 | 62 | VW25-15 | 1.70 | 1.10 | 0.16 | 1.90 | <0.05 | 2.10 | **7.70** | 0.28 | 0.33 | **15.00** | 1.10 | 0.35 | 0.82 | **62.00** | 1.0 | **15.00** | 4.30 | **6.30** |
| Indeno[1,2,3-cd]pyrene | mg.kg$^{-1}$ | 0.05 | 27 | 68 | 1 | <0.05 | <1.93 | 33 | VW25-15 | 0.65 | 0.39 | 0.10 | 1.0 | <0.05 | 1.20 | 6.50 | 0.18 | 0.17 | 8.30 | 0.50 | 0.20 | 0.39 | **33.00** | 0.60 | 6.50 | 2.30 | 2.90 |
| Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.05 | 0.24 | 68 | 25 | <0.05 | <0.37 | 6 | VW25-15 | 0.18 | 0.11 | <0.05 | **0.31** | <0.05 | 0.22 | **1.0** | <0.05 | <0.05 | **1.60** | 0.10 | <0.05 | 0.10 | **6.10** | **0.31** | **1.50** | **0.39** | **0.69** |
| Benzo[ghi]perylene | mg.kg$^{-1}$ | 0.05 | | 68 | | <0.05 | <2.12 | 38 | VW25-15 | 0.85 | 0.47 | 0.11 | 1.20 | <0.05 | 1.40 | 7.50 | 0.17 | 0.19 | 8.50 | 0.58 | 0.23 | 0.49 | 38.00 | 0.67 | 6.80 | 2.90 | 3.00 |
| PAH 16 Total | mg.kg$^{-1}$ | 0.8 | | 68 | | <0.8 | <41.3 | 546 | VW25-15 | 19.20 | 12.90 | 2.27 | 22.50 | <0.8 | 38.90 | 87.10 | 3.37 | 3.36 | 149.00 | 9.75 | 3.62 | 12.10 | 546.00 | 9.02 | 198.00 | 51.70 | 85.00 |
| Arsenic | mg.kg$^{-1}$ | 1 | 37 | 66 | 7 | 2.1 | 18.3 | 68 | VW25-21 | 3.70 | 5.90 | 7.70 | 23.00 | 7.00 | 12.00 | **57.00** | 11.00 | 15.00 | 27.00 | 12.00 | 9.70 | 6.60 | 9.10 | | 17.00 | 19.00 | 10.00 |
| Boron | mg.kg$^{-1}$ | 0.2 | 290 | 66 | 0 | 0.3 | 1.9 | 8 | VW25-21 | 0.70 | 1.0 | 1.10 | 1.70 | 1.80 | 2.80 | 1.60 | 1.50 | 0.70 | 0.70 | 0.60 | 0.70 | 0.80 | 1.20 | | 1.70 | 2.00 | 1.40 |
| Cadmium | mg.kg$^{-1}$ | 0.2 | 22 | 66 | 0 | <0.2 | <0.2 | 0.7 | MW25-15C | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.30 | <0.2 | 0.40 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 |
| Chromium (VI) | mg.kg$^{-1}$ | 1.2 | 20.56762367 | 66 | 0 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | | <1.2 | <1.2 | <1.2 |
| Chromium (III) | mg.kg$^{-1}$ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chromium (Total) | mg.kg$^{-1}$ | 1 | | 66 | | 5.8 | 24.1 | 86 | TP25-21 | 11.00 | 16.00 | 20.00 | 35.00 | 18.00 | 20.00 | 38.00 | 16.00 | 13.00 | 25.00 | 23.00 | 15.00 | 24.00 | 18.00 | | 23.00 | 22.00 | 14.00 |
| Copper | mg.kg$^{-1}$ | 1 | 2400 | 66 | 0 | 6.5 | 39.7 | 180 | MW25-15C | 9.10 | 12.00 | 19.00 | 67.00 | 14.00 | 36.00 | 55.00 | 27.00 | 14.00 | 62.00 | 60.00 | 23.00 | 21.00 | 39.00 | | 31.00 | 24.00 | 36.00 |
| Lead | mg.kg$^{-1}$ | 1 | 200.89 | 66 | 5 | 4.5 | 69.3 | 410 | MW25-15C | 4.80 | 17.00 | 32.00 | 81.00 | 17.00 | 96.00 | **220.00** | 94.00 | 9.40 | 150.00 | 74.00 | 11.00 | 21.00 | 84.00 | | 80.00 | 41.00 | 79.00 |
| Mercury (inorganic) | mg.kg$^{-1}$ | 0.3 | 200 | 66 | 0 | <0.3 | <0.5 | 7 | VW25-01 | <0.3 | <0.3 | 0.40 | <0.3 | <0.3 | 0.40 | 1.80 | <0.3 | <0.3 | 0.30 | <0.3 | <0.3 | <0.3 | <0.3 | | 0.40 | <0.3 | <0.3 |
| Nickel | mg.kg$^{-1}$ | 1 | 180 | 66 | 0 | 5.9 | 21.3 | 99 | MW25-15C | 6.30 | 9.20 | 13.00 | 35.00 | 14.00 | 16.00 | 36.00 | 15.00 | 11.00 | 20.00 | 22.00 | 12.00 | 22.00 | 22.00 | | 19.00 | 22.00 | 16.00 |
| Selenium | mg.kg$^{-1}$ | 1 | 250 | 66 | 0 | <1 | <1.3 | 7.1 | TP25-10 | <1 | <1 | <1 | <1 | <1 | <1 | 1.80 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | | <1 | <1 | 1.30 |
| Zinc | mg.kg$^{-1}$ | 1 | 3700 | 66 | 0 | 15 | 90.4 | 320 | MW25-14 | 20.00 | 41.00 | 64.00 | 120.00 | 46.00 | 92.00 | 150.00 | 63.00 | 70.00 | 65.00 | 130.00 | 46.00 | 63.00 | 95.00 | | 76.00 | 71.00 | 63.00 |
| Benzene | mg.kg$^{-1}$ | 0.005 | 0.202927877 | 53 | 0 | <0.005 | <0.008 | 0.07 | MW25-22 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.024 | | <0.005 | | <0.005 | | <0.005 | <0.005 | 0.0060 | | <0.005 | <0.005 | <0.005 |
| Toluene | mg.kg$^{-1}$ | 0.005 | 130 | 53 | 0 | <0.005 | <0.007 | 0 | MW25-22 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.019 | | <0.005 | | <0.005 | | <0.005 | <0.005 | 0.0070 | | <0.005 | <0.005 | <0.005 |
| Ethylbenzene | mg.kg$^{-1}$ | 0.005 | 47 | 53 | 0 | <0.005 | <0.013 | 0.18 | MW25-22 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | | <0.005 | | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 |
| Xylene (p & m-Xylene) | mg.kg$^{-1}$ | 0.008 | | 53 | | <0.008 | <0.012 | 0.12 | MW25-22 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | | <0.008 | | <0.008 | | <0.008 | <0.008 | <0.008 | | <0.008 | <0.008 | <0.008 |
| Xylene (o-Xylene) | mg.kg$^{-1}$ | 0.005 | 60 | 53 | 0 | <0.005 | <0.012 | 0 | MW25-22 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | | <0.005 | | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 |
| Methyl tert-butyl ether | mg.kg$^{-1}$ | 0.005 | 76.01 | 11 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | <0.005 | | <0.005 | | |
| TPH (C10 - C40) | mg.kg$^{-1}$ | 10 | | 59 | | <10 | <113.4 | 830 | TP25-12 | 60.00 | 22.00 | <10 | 22.00 | <10 | 71.00 | 300.00 | <10 | <10 | | 59.00 | <10 | <10 | 480.00 | | | 95.00 | 150.00 |
| Aliphatic C5 - C6 | mg.kg$^{-1}$ | 0.01 | 42 | 11 | 0 | <0.01 | <0.01 | 0 | MW25-04A | | | | | | | | | | <0.01 | | | | <0.01 | | <0.01 | | |
| Aliphatic C6 - C8 | mg.kg$^{-1}$ | 0.01 | 100 | 11 | 0 | <0.01 | <0.02 | 0 | MW25-04A | | | | | | | | | | <0.01 | | | | <0.01 | | <0.01 | | |
| Aliphatic C8 – C10 | mg.kg$^{-1}$ | 0.01 | 27 | 11 | 0 | <0.01 | <0.04 | 0 | MW25-01 | | | | | | | | | | <0.01 | | | | <0.01 | | <0.01 | | |
| Aliphatic C10 – C12 | mg.kg$^{-1}$ | 1 | 130 | 11 | 0 | <1 | <5.1 | 37 | MW25-04A | | | | | | | | | | <1 | | | | <1 | | <1 | | |
| Aliphatic C12 – C16 | mg.kg$^{-1}$ | 2 | 1100 | 11 | 0 | <2 | <14.2 | 50 | MW25-01 | | | | | | | | | | 6.80 | | | | <2 | | 14.00 | | |
| Aliphatic C16 – C21 | mg.kg$^{-1}$ | 8 | 65000 | 11 | 0 | <8 | <30.3 | 63 | MW25-01 | | | | | | | | | | 21.00 | | | | <8 | | 34.00 | | |
| Aliphatic C21 – C35 | mg.kg$^{-1}$ | 8 | 65000 | 11 | 0 | <8 | <104.7 | 310 | TP25-12 | | | | | | | | | | 59.00 | | | | <8 | | 53.00 | | |
| Aliphatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 11 | | <10 | <152.3 | 360 | TP25-12 | | | | | | | | | | 87.00 | | | | <10 | | 100.00 | | |
| Aromatic C5 - C7 | mg.kg$^{-1}$ | 0.01 | 70 | 11 | 0 | <0.01 | <0.03 | 0.11 | MW25-04A | | | | | | | | | | <0.01 | | | | <0.01 | | <0.01 | | |
| Aromatic C7 - C8 | mg.kg$^{-1}$ | 0.01 | 130 | 11 | 0 | <0.01 | <0.02 | 0.093 | MW25-04A | | | | | | | | | | <0.01 | | | | <0.01 | | <0.01 | | |
| Aromatic C8 – C10 | mg.kg$^{-1}$ | 0.02 | 34 | 11 | 0 | <0.02 | <0.13 | 0.59 | MW25-22 | | | | | | | | | | <0.02 | | | | <0.02 | | <0.02 | | |
| Aromatic C10 – C12 | mg.kg$^{-1}$ | 1 | 74 | 11 | 0 | <1 | <3.7 | 22 | MW25-22 | | | | | | | | | | <1 | | | | <1 | | 1.10 | | |
| Aromatic C12 – C16 | mg.kg$^{-1}$ | 2 | 140 | 11 | 0 | <2 | <23.9 | 110 | MW25-22 | | | | | | | | | | 15.00 | | | | 19.00 | | 17.00 | | |
| Aromatic C16 – C21 | mg.kg$^{-1}$ | 10 | 260 | 11 | 0 | <10 | <78.2 | 200 | VW25-15 | | | | | | | | | | 130.00 | | | | 200.00 | | 88.00 | | |
| Aromatic C21 – C35 | mg.kg$^{-1}$ | 10 | 1100 | 11 | 0 | <10 | <143.4 | 300 | TP25-12 | | | | | | | | | | 230.00 | | | | 250.00 | | 120.00 | | |
| Aromatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 11 | | <10 | <246.9 | 470 | VW25-15 | | | | | | | | | | 370.00 | | | | 470.00 | | 230.00 | | |
| Coal tar | mg.kg$^{-1}$ | 10 | | 2 | | 1600 | 2500 | 3400 | MW25-12 | | | | | | | | | | | | | | | 1600.00 | | | |
| Chloromethane | mg.kg$^{-1}$ | 0.005 | 0.0119 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Chloroethane | mg.kg$^{-1}$ | 0.005 | 11.791 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Bromomethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Vinyl chloride (Chloroethene) | mg.kg$^{-1}$ | 0.005 | 0.0064 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Trichlorofluoromethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,1-Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.326 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Trans 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.9 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,1-Dichloroethane | mg.kg$^{-1}$ | 0.005 | 3.47 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 2,2-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Trichloromethane (Chloroform) | mg.kg$^{-1}$ | 0.005 | 0.91 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | mg.kg$^{-1}$ | 0.005 | 8.8 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,2-Dichloroethane | mg.kg$^{-1}$ | 0.007 | 0.11 | 7 | 0 | <0.007 | <0.007 | <0.007 | n/a | | <0.007 | | | | | | <0.007 | | <0.007 | | | | | | | | |
| 1,1-Dichloropropene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Cis 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.46 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Carbon tetrachloride (Tetrachloromethane) | mg.kg$^{-1}$ | 0.005 | 0.026 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,2-Dichloropropane | mg.kg$^{-1}$ | 0.006 | 0.0338 | 7 | 0 | <0.006 | <0.006 | <0.006 | n/a | | <0.006 | | | | | | <0.006 | | <0.006 | | | | | | | | |
| Trichloroethylene | mg.kg$^{-1}$ | 0.01 | 0.0093 | 7 | 0 | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | | | | | | <0.01 | | <0.01 | | | | | | | | |
| Dibromomethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Bromodichloromethane | mg.kg$^{-1}$ | 0.005 | 0.0239 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Cis-1,3-dichloropropene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Trans-1,3-dichloropropene | mg.kg$^{-1}$ | 0.01 | | 7 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | | | | | | <0.01 | | <0.01 | | | | | | | | |
| 1,1,2 Trichloroethane | mg.kg$^{-1}$ | 0.006 | 0.923 | 7 | 0 | <0.006 | <0.006 | <0.006 | n/a | | <0.006 | | | | | | <0.006 | | <0.006 | | | | | | | | |
| 1,3-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Dibromochloromethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Tetrachloroethylene | mg.kg$^{-1}$ | 0.005 | 0.31 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,2-Dibromoethane | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| ChloroBenzene | mg.kg$^{-1}$ | 0.005 | 0.46 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.2 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Styrene | mg.kg$^{-1}$ | 0.005 | 19.448 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Bromoform | mg.kg$^{-1}$ | 0.005 | 4.548 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Iso-propylbenzene | mg.kg$^{-1}$ | 0.005 | 15.953 | 7 | 0 | <0.005 | <0.006 | 0.0099 | MW25-22 | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.6 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Bromobenzene | mg.kg$^{-1}$ | 0.005 | 1.258 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| n-Propylbenzene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.006 | 0.0096 | MW25-22 | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 2-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 4-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,3,5-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.017 | 0.087 | MW25-22 | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| tert-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | 0.517 | 7 | 0 | <0.005 | <0.043 | 0.27 | MW25-22 | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| sec-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 0.4 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| p-Isopropyltoluene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 45.847 | 4 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 23.08 | 5 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | mg.kg$^{-1}$ | 0.008 | | 7 | | <0.008 | <0.008 | <0.008 | n/a | | <0.008 | | | | | | <0.008 | | <0.008 | | | | | | | | |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 2.58 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.005 | | 7 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| 1,2,3-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 1.477 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | | | | | | <0.005 | | <0.005 | | | | | | | | |
| Aniline | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| Phenol | mg.kg$^{-1}$ | 0.2 | 280 | 3 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| 2-chlorophenol | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 0.4 | 3 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.1 | 23.08 | 3 | 0 | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 45.847 | 3 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| 2-Methylphenol | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| Hexachloroethane | mg.kg$^{-1}$ | 0.05 | 0.287 | 3 | 0 | <0.05 | <0.05 | <0.05 | n/a | | | | | | | | | | | | | | | | | | |
| Nitrobenzene | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| 4-Methylphenol | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| Isophorone | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| 2-Nitrophenol | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | mg.kg$^{-1}$ | 0.3 | 34.117 | 3 | 0 | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| Bis(2-chloroethoxy)methane | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.3 | 2.58 | 3 | 0 | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| 4-Chloroaniline | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <5.6 | 16 | MW25-22 | | | | | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | mg.kg$^{-1}$ | 0.1 | 5.334 | 3 | 0 | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| Dimethylphthalate | mg.kg$^{-1}$ | 0.1 | | 3 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | mg.kg$^{-1}$ | 0.1 | 1.469 | 3 | 0 | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | mg.kg$^{-1}$ | 0.2 | 2.774 | 3 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| Dibenzofuran | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.7 | 1.3 | MW25-22 | | | | | | | | | | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| Diethyl phthalate | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| 4-Nitroaniline | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| Azobenzene | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| Bromophenyl phenyl ether | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| Hexachlorobenzene | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| Carbazole | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <0.3 | 0.4 | VW25-01 | | | | | | | | | | | | | | | | | | |
| Dibutyl phthalate | mg.kg$^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | |
| Anthraquinone | mg.kg$^{-1}$ | 0.3 | | 3 | | <0.3 | <1.1 | 2.3 | MW25-22 | | | | | | | | | | | | | | | | | | |
| Butyl benzyl phthalate | mg.kg$^{-1}$ | 0.3 | 2615.035 | 3 | 0 | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | |
| PCB Congener 28 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | |
| PCB Congener 52 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | |
| PCB Congener 101 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | |
| PCB Congener 118 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | |
| PCB Congener 138 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | |
| PCB Congener 153 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | |
| PCB Congener 180 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | |
| Total PCBs | mg.kg$^{-1}$ | 0.007 | | 1 | | <0.007 | <0.007 | <0.007 | n/a | | | | | | | | | | | | | | | | | | |

MGR = Made Ground

## Table A: Soil Analytical Data (<0.8 m bgl) - Area C

| NUMBER OF SAMPLES: | 10 | | | | | | | | Sample Location | MW25-26 | MW25-28A | MW25-28A | TP25-14 | TP25-14 | TP25-16 | VW25-05 | VW25-06 | VW25-06 | VW25-07 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Depth (m bgl) | 0.30 | 0.00 | 0.60 | 0.25 | 0.60 | 0.15 | 0.30 | 0.20 | 0.60 | 0.25 |
| | | | | | | | | | Date Sampled | 19/02/2025 | 20/02/2025 | 20/02/2025 | 10/02/2025 | 10/02/2025 | 10/02/2025 | 11/02/2025 | 11/02/2025 | 11/02/2025 | 11/02/2025 |
| | | | CRITERIA 1 | | CRITERIA 1 | | | | Stratum | MGR | Tarmac | MGR | MGR | MGR | MGR | MGR | MGR | OM | MGR |
| **Analytical Parameter** | Units | Limit of detection | Residential (with veg uptake C4SL) | No. Analyses | Exceedances | Min | Mean | Max | Max ID | | | | | | | | | | |
| Stone Content | % | 0.1 | | 10 | | <0.1 | <24.6 | 70.8 | VW25-05 | 49.10 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 70.80 | 55.70 | <0.1 | 70.00 |
| Moisture Content | % | 0.01 | | 10 | | 2.7 | 7.99 | 18 | MW25-28A | 3.70 | 2.70 | 18.00 | 5.30 | 16.00 | 4.50 | 4.00 | 4.70 | 17.00 | 4.00 |
| Total mass of sample received | kg | 0.1 | | 10 | | 0.5 | 0.8 | 1 | MW25-28A | 0.50 | 0.90 | 1.0 | 0.80 | 0.80 | 0.80 | 0.70 | 0.80 | 0.70 | 0.80 |
| Asbestos in Soil | Detect | N/A | | 7 | | 0 | 0 | <0 | n/a | Not-detected | - | Not-detected | Not-detected | - | Not-detected | Not-detected | Not-detected | - | Not-detected |
| pH | pH Units | N/A | | 9 | | 7.5 | 8.9 | 9.5 | TP25-14 | 8.80 | | 8.30 | 9.50 | 9.20 | 7.50 | 9.40 | 9.30 | 8.50 | 9.50 |
| Water Soluble SO4 16hr extraction (2:1) | mg.kg$^{-1}$ | 2.5 | | 9 | | 120 | 486.7 | 2400 | TP25-16 | 490.00 | | 120.00 | 160.00 | 160.00 | 2400.00 | 280.00 | 250.00 | 160.00 | 360.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg.L$^{-1}$ | 1.25 | | 9 | | 60.4 | 241.97 | 1180 | TP25-16 | 247.00 | | 60.40 | 81.40 | 81.00 | 1180.00 | 142.00 | 126.00 | 77.90 | 182.00 |
| Sulphide | mg.kg$^{-1}$ | 1 | | 9 | | 2.7 | 30.1 | 75 | MW25-28A | 2.70 | | 75.00 | 8.50 | 30.00 | 24.00 | 26.00 | 15.00 | 57.00 | 33.00 |
| Ammonium as NH4 | mg.kg$^{-1}$ | 0.5 | | 9 | | <0.5 | <3.7 | 24 | VW25-06 | <0.5 | | 5.20 | <0.5 | 1.0 | <0.5 | <0.5 | <0.5 | 24.00 | <0.5 |
| Organic Matter | % | 0.1 | | 9 | | <0.1 | <1.1 | 2.8 | TP25-16 | <0.1 | | 1.30 | 1.40 | 1.50 | 2.80 | 0.90 | 1.0 | 0.90 | 0.40 |
| Total Organic Carbon (TOC) | % | 0.1 | | 2 | | <0.1 | <0.3 | 0.5 | VW25-06 | <0.1 | | | | | | | | 0.50 | |
| Loss on Ignition | % | 0.2 | | 9 | | 0.2 | 1.8 | 3.3 | MW25-28A | 0.20 | | 3.30 | 1.40 | 2.70 | 2.90 | 1.10 | 1.0 | 2.90 | 0.80 |
| Cyanide (Total) (as CN) | mg.kg$^{-1}$ | 1 | | 9 | | <1 | <3 | 17 | TP25-14 | <1 | | 1.10 | 2.90 | 17.00 | <1 | <1 | <1 | 1.30 | <1 |
| Complexed cyanide | mg.kg$^{-1}$ | 1 | 1116.3 | 9 | 0 | <1 | <3 | 17 | TP25-14 | <1 | | 1.10 | 2.90 | 17.00 | <1 | <1 | <1 | 1.30 | <1 |
| Easily liberatable cyanide | mg.kg$^{-1}$ | 1 | 1.44 | 9 | 0 | <1 | <1 | <1 | n/a | <1 | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | mg.kg$^{-1}$ | 5 | | 9 | | <5 | <5.9 | 7.8 | MW25-28A | <5 | | 7.80 | <5 | 7.80 | <5 | <5 | <5 | 7.60 | <5 |
| Chloride | mg.kg$^{-1}$ | 1 | | 9 | | 7.8 | 91.9 | 340 | MW25-28A | 55.00 | | 340.00 | 17.00 | 81.00 | 7.80 | 16.00 | 15.00 | 270.00 | 25.00 |
| Sulphur (Elemental) | mg.kg$^{-1}$ | 5 | | 9 | | <5 | <27.3 | 82 | MW25-28A | <5 | | 82.00 | 11.00 | 44.00 | 18.00 | 8.60 | 10.00 | 57.00 | 10.00 |
| Catechol | mg.kg$^{-1}$ | 0.1 | | 9 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | mg.kg$^{-1}$ | 0.1 | | 9 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | mg.kg$^{-1}$ | 0.3 | | 9 | | <0.3 | <0.3 | <0.3 | n/a | <0.3 | | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | mg.kg$^{-1}$ | 0.2 | | 9 | | <0.2 | <0.2 | <0.2 | n/a | <0.2 | | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | mg.kg$^{-1}$ | 0.1 | | 9 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | mg.kg$^{-1}$ | 0.1 | 280 | 9 | 0 | <0.1 | <0.1 | <0.1 | n/a | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | mg.kg$^{-1}$ | 0.1 | | 9 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | mg.kg$^{-1}$ | 1.4 | | 9 | | <1.4 | <1.4 | <1.4 | n/a | <1.4 | | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | mg.kg$^{-1}$ | 0.4 | | 9 | | <0.4 | <0.4 | <0.4 | n/a | <0.4 | | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | mg.kg$^{-1}$ | 0.05 | 15 | 10 | 0 | <0.05 | <0.09 | 0.33 | TP25-16 | <0.05 | <0.05 | 0.080 | 0.080 | 0.13 | 0.33 | <0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthylene | mg.kg$^{-1}$ | 0.05 | 170 | 10 | 0 | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthene | mg.kg$^{-1}$ | 0.05 | 210 | 10 | 0 | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluorene | mg.kg$^{-1}$ | 0.05 | 170 | 10 | 0 | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Phenanthrene | mg.kg$^{-1}$ | 0.05 | 95 | 10 | 0 | <0.05 | <0.15 | 0.54 | MW25-28A | <0.05 | 0.21 | 0.54 | 0.060 | 0.37 | <0.05 | <0.05 | 0.090 | <0.05 | <0.05 |
| Anthracene | mg.kg$^{-1}$ | 0.05 | 2400 | 10 | 0 | <0.05 | <0.06 | 0.1 | MW25-28A | <0.05 | <0.05 | 0.10 | <0.05 | 0.060 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluoranthene | mg.kg$^{-1}$ | 0.05 | 280 | 10 | 0 | <0.05 | <0.25 | 1.1 | MW25-28A | <0.05 | 0.23 | 1.10 | 0.080 | 0.77 | <0.05 | <0.05 | 0.090 | 0.070 | <0.05 |
| Pyrene | mg.kg$^{-1}$ | 0.05 | 620 | 10 | 0 | <0.05 | <0.22 | 0.88 | MW25-28A | <0.05 | 0.21 | 0.88 | 0.090 | 0.71 | <0.05 | <0.05 | 0.10 | 0.050 | <0.05 |
| Benzo[a]anthracene | mg.kg$^{-1}$ | 0.05 | | 10 | | <0.05 | <0.14 | 0.61 | MW25-28A | <0.05 | <0.05 | 0.61 | <0.05 | 0.41 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Chrysene | mg.kg$^{-1}$ | 0.05 | 15 | 10 | 0 | <0.05 | <0.15 | 0.62 | MW25-28A | <0.05 | <0.05 | 0.62 | 0.050 | 0.44 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[b]fluoranthene | mg.kg$^{-1}$ | 0.05 | 2.6 | 10 | 0 | <0.05 | <0.18 | 0.76 | MW25-28A | <0.05 | <0.05 | 0.76 | 0.080 | 0.60 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[k]fluoranthene | mg.kg$^{-1}$ | 0.05 | 77 | 10 | 0 | <0.05 | <0.09 | 0.28 | MW25-28A | <0.05 | <0.05 | 0.28 | <0.05 | 0.22 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[a]pyrene | mg.kg$^{-1}$ | 0.05 | 4.96 | 10 | 0 | <0.05 | <0.14 | 1 | MW25-28A | <0.05 | <0.05 | 0.56 | <0.05 | 0.47 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno[1,2,3-cd]pyrene | mg.kg$^{-1}$ | 0.05 | 27 | 10 | 0 | <0.05 | <0.1 | 0.3 | MW25-28A | <0.05 | <0.05 | 0.30 | <0.05 | 0.28 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.05 | 0.24 | 10 | 0 | <0.05 | <0.05 | 0 | MW25-28A | <0.05 | <0.05 | 0.080 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[ghi]perylene | mg.kg$^{-1}$ | 0.05 | | 10 | | <0.05 | <0.11 | 0.36 | MW25-28A | <0.05 | <0.05 | 0.36 | 0.060 | 0.34 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| PAH 16 Total | mg.kg$^{-1}$ | 0.8 | | 10 | | <0.8 | <1.7 | 6.23 | MW25-28A | <0.8 | <0.8 | 6.23 | <0.8 | 4.80 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |
| Arsenic | mg.kg$^{-1}$ | 1 | 37 | 9 | 0 | 7.8 | 13.1 | 16 | MW25-28A | 9.20 | | 16.00 | 12.00 | 15.00 | 16.00 | 7.80 | 14.00 | 12.00 | 16.00 |
| Boron | mg.kg$^{-1}$ | 0.2 | 290 | 9 | 0 | 0.4 | 0.8 | 2 | MW25-28A | 0.50 | | 1.90 | 0.70 | 1.0 | 0.60 | 0.50 | 0.40 | 0.70 | 0.60 |
| Cadmium | mg.kg$^{-1}$ | 0.2 | 22 | 9 | 0 | <0.2 | <0.2 | 0.4 | MW25-28A | <0.2 | | 0.40 | <0.2 | <0.2 | <0.2 | 0.40 | <0.2 | <0.2 | <0.2 |
| Chromium (VI) | mg.kg$^{-1}$ | 1.2 | 20.56762367 | 9 | 0 | <1.2 | <1.2 | <1.2 | n/a | <1.2 | | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | mg.kg$^{-1}$ | | | | | | | | | | | | | | | | | | |
| Chromium (Total) | mg.kg$^{-1}$ | 1 | | 9 | | 5.9 | 73.8 | 220 | VW25-05 | 5.90 | | 49.00 | 36.00 | 29.00 | 70.00 | 220.00 | 68.00 | 36.00 | 150.00 |
| Copper | mg.kg$^{-1}$ | 1 | 2400 | 9 | 0 | 23 | 51.8 | 110 | TP25-16 | 33.00 | | 39.00 | 52.00 | 23.00 | 110.00 | 64.00 | 66.00 | 23.00 | 56.00 |
| Lead | mg.kg$^{-1}$ | 1 | 200.89 | 9 | 3 | 9.2 | 356.1 | 2100 | MW25-28A | 9.20 | | **2100.00** | 91.00 | **560.00** | 29.00 | 16.00 | 32.00 | **350.00** | 18.00 |
| Mercury (inorganic) | mg.kg$^{-1}$ | 0.3 | 200 | 9 | 0 | <0.3 | <0.3 | <0.3 | n/a | <0.3 | | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel | mg.kg$^{-1}$ | 1 | 180 | 9 | 0 | 5.5 | 47.6 | 110 | VW25-05 | 5.50 | | 55.00 | 27.00 | 21.00 | 53.00 | 110.00 | 44.00 | 33.00 | 80.00 |
| Selenium | mg.kg$^{-1}$ | 1 | 250 | 9 | 0 | <1 | <1 | 1.4 | TP25-16 | <1 | | <1 | <1 | 1.0 | 1.40 | <1 | <1 | <1 | <1 |
| Zinc | mg.kg$^{-1}$ | 1 | 3700 | 9 | 0 | 59 | 97.7 | 180 | TP25-14 | 59.00 | | 120.00 | 100.00 | 180.00 | 97.00 | 94.00 | 89.00 | 73.00 | 67.00 |
| Benzene | mg.kg$^{-1}$ | 0.005 | 0.202927877 | 6 | 0 | <0.005 | <0.009 | 0.02 | VW25-06 | <0.005 | | 0.012 | <0.005 | <0.005 | <0.005 | | | 0.020 | |
| Toluene | mg.kg$^{-1}$ | 0.005 | 130 | 6 | 0 | <0.005 | <0.005 | <0.005 | n/a | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | | | <0.005 | |
| Ethylbenzene | mg.kg$^{-1}$ | 0.005 | 47 | 6 | 0 | <0.005 | <0.005 | <0.005 | n/a | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | | | <0.005 | |
| Xylene (p & m-Xylene) | mg.kg$^{-1}$ | 0.008 | | 6 | | <0.008 | <0.008 | <0.008 | n/a | <0.008 | | <0.008 | <0.008 | <0.008 | <0.008 | | | <0.008 | |
| Xylene (o-Xylene) | mg.kg$^{-1}$ | 0.005 | 60 | 6 | 0 | <0.005 | <0.005 | <0.005 | n/a | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | | | <0.005 | |
| Methyl tert-butyl ether | mg.kg$^{-1}$ | 0.005 | 76.01 | 3 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | <0.005 | | | <0.005 | | | <0.005 | |
| TPH (C10 - C40) | mg.kg$^{-1}$ | 10 | | 7 | | <10 | <172.9 | 850 | TP25-16 | <10 | | | 150.00 | 73.00 | 850.00 | 26.00 | 91.00 | | <10 |
| Aliphatic C5 - C6 | mg.kg$^{-1}$ | 0.01 | 42 | 3 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | <0.01 | | | <0.01 | | | <0.01 | |
| Aliphatic C6 - C8 | mg.kg$^{-1}$ | 0.01 | 100 | 3 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | <0.01 | | | <0.01 | | | <0.01 | |
| Aliphatic C8 – C10 | mg.kg$^{-1}$ | 0.01 | 27 | 3 | 0 | <0.01 | <0.02 | 0 | MW25-28A | | | 0.026 | | | <0.01 | | | <0.01 | |
| Aliphatic C10 – C12 | mg.kg$^{-1}$ | 1 | 130 | 3 | 0 | <1 | <1.1 | 1 | TP25-16 | | | <1 | | | 1.30 | | | <1 | |
| Aliphatic C12 – C16 | mg.kg$^{-1}$ | 2 | 1100 | 3 | 0 | <2 | <2.2 | 2.7 | TP25-16 | | | <2 | | | 2.70 | | | <2 | |
| Aliphatic C16 – C21 | mg.kg$^{-1}$ | 8 | 65000 | 3 | 0 | <8 | <8 | <8 | n/a | | | <8 | | | <8 | | | <8 | |
| Aliphatic C21 – C35 | mg.kg$^{-1}$ | 8 | 65000 | 3 | 0 | <8 | <72 | 200 | TP25-16 | | | <8 | | | 200.00 | | | <8 | |
| Aliphatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 3 | | <10 | <73.3 | 200 | TP25-16 | | | <10 | | | 200.00 | | | <10 | |
| Aromatic C5 - C7 | mg.kg$^{-1}$ | 0.01 | 70 | 3 | 0 | <0.01 | <0.01 | 0.021 | VW25-06 | | | 0.012 | | | <0.01 | | | 0.021 | |
| Aromatic C7 - C8 | mg.kg$^{-1}$ | 0.01 | 130 | 3 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | <0.01 | | | <0.01 | | | <0.01 | |
| Aromatic C8 – C10 | mg.kg$^{-1}$ | 0.02 | 34 | 3 | 0 | <0.02 | <0.02 | <0.02 | n/a | | | <0.02 | | | <0.02 | | | <0.02 | |
| Aromatic C10 – C12 | mg.kg$^{-1}$ | 1 | 74 | 3 | 0 | <1 | <1 | <1 | n/a | | | <1 | | | <1 | | | <1 | |
| Aromatic C12 – C16 | mg.kg$^{-1}$ | 2 | 140 | 3 | 0 | <2 | <2 | <2 | n/a | | | <2 | | | <2 | | | <2 | |
| Aromatic C16 – C21 | mg.kg$^{-1}$ | 10 | 260 | 3 | 0 | <10 | <10 | <10 | n/a | | | <10 | | | <10 | | | <10 | |
| Aromatic C21 – C35 | mg.kg$^{-1}$ | 10 | 1100 | 3 | 0 | <10 | <80 | 220 | TP25-16 | | | <10 | | | 220.00 | | | <10 | |
| Aromatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 3 | | <10 | <80 | 220 | TP25-16 | | | <10 | | | 220 | | | <10 | |
| Coal Tar | mg.kg$^{-1}$ | 10 | | 1 | | 4700 | 4700 | 4700 | MW25-28A | | 4700 | | | | | | | | |
| Chloromethane | mg.kg$^{-1}$ | 0.005 | 0.0119 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Chloroethane | mg.kg$^{-1}$ | 0.005 | 11.791 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Bromomethane | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Vinyl chloride (Chloroethene) | mg.kg$^{-1}$ | 0.005 | 0.0064 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Trichlorofluoromethane | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,1-Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.326 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Trans 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.9 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,1-Dichloroethane | mg.kg$^{-1}$ | 0.005 | 3.47 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 2,2-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Trichloromethane (Chloroform) | mg.kg$^{-1}$ | 0.005 | 0.91 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,1,1-Trichloroethane (TCA) | mg.kg$^{-1}$ | 0.005 | 8.8 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,2-Dichloroethane | mg.kg$^{-1}$ | 0.007 | 0.11 | 1 | 0 | <0.007 | <0.007 | <0.007 | n/a | | | | | | | | | <0.007 | |
| 1,1-Dichloropropene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Cis 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.46 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Carbon tetrachloride (Tetrachloromethane) | mg.kg$^{-1}$ | 0.005 | 0.026 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,2-Dichloropropane | mg.kg$^{-1}$ | 0.006 | 0.0338 | 1 | 0 | <0.006 | <0.006 | <0.006 | n/a | | | | | | | | | <0.006 | |
| Trichloroethylene | mg.kg$^{-1}$ | 0.01 | 0.0093 | 1 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | <0.01 | |
| Dibromomethane | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Bromodichloromethane | mg.kg$^{-1}$ | 0.005 | 0.0239 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Cis-1,3-dichloropropene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Trans-1,3-dichloropropene | mg.kg$^{-1}$ | 0.01 | | 1 | | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | <0.01 | |
| 1,1,2 Trichloroethane | mg.kg$^{-1}$ | 0.006 | 0.923 | 1 | 0 | <0.006 | <0.006 | <0.006 | n/a | | | | | | | | | <0.006 | |
| 1,3-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Dibromochloromethane | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Tetrachloroethylene | mg.kg$^{-1}$ | 0.005 | 0.31 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,2-Dibromoethane | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| ChloroBenzene | mg.kg$^{-1}$ | 0.005 | 0.46 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.2 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Styrene | mg.kg$^{-1}$ | 0.005 | 19.448 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Bromoform | mg.kg$^{-1}$ | 0.005 | 4.548 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Iso-propylbenzene | mg.kg$^{-1}$ | 0.005 | 15.953 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.6 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Bromobenzene | mg.kg$^{-1}$ | 0.005 | 1.258 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| n-Propylbenzene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 2-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 4-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,3,5-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| tert-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | 0.517 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| sec-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 0.4 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| p-Isopropyltoluene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 45.847 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 23.08 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,2-Dibromo-3-chloropropane | mg.kg$^{-1}$ | 0.008 | | 1 | | <0.008 | <0.008 | <0.008 | n/a | | | | | | | | | <0.008 | |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 2.58 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| 1,2,3-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 1.477 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | |
| Aniline | mg.kg$^{-1}$ | 0.1 | | 1 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| Phenol | mg.kg$^{-1}$ | 0.2 | 280 | 1 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| 2-chlorophenol | mg.kg$^{-1}$ | 0.1 | | 1 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| Bis(2-chloroethyl)ether | mg.kg$^{-1}$ | 0.2 | | 1 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 0.4 | 1 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.1 | 23.08 | 1 | 0 | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 45.847 | 1 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| Bis(2-chloroisopropyl)ether | mg.kg$^{-1}$ | 0.1 | | 1 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| 2-Methylphenol | mg.kg$^{-1}$ | 0.3 | | 1 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| Hexachloroethane | mg.kg$^{-1}$ | 0.05 | 0.287 | 1 | 0 | <0.05 | <0.05 | <0.05 | n/a | | | | | | | | | <0.05 | |
| Nitrobenzene | mg.kg$^{-1}$ | 0.3 | | 1 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| 4-Methylphenol | mg.kg$^{-1}$ | 0.2 | | 1 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| Isophorone | mg.kg$^{-1}$ | 0.2 | | 1 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| 2-Nitrophenol | mg.kg$^{-1}$ | 0.3 | | 1 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| 2,4-Dimethylphenol | mg.kg$^{-1}$ | 0.3 | 34.117 | 1 | 0 | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| Bis(2-chloroethoxy)methane | mg.kg$^{-1}$ | 0.3 | | 1 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.3 | 2.58 | 1 | 0 | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| 2,4-Dichlorophenol | mg.kg$^{-1}$ | 0.3 | | 1 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| 4-Chloroaniline | mg.kg$^{-1}$ | 0.1 | | 1 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.1 | | 1 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| 4-Chloro-3-methylphenol | mg.kg$^{-1}$ | 0.1 | | 1 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| 2,4,6-Trichlorophenol | mg.kg$^{-1}$ | 0.1 | | 1 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| 2,4,5-Trichlorophenol | mg.kg$^{-1}$ | 0.2 | | 1 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| 2-Methylnaphthalene | mg.kg$^{-1}$ | 0.1 | | 1 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| 2-Chloronaphthalene | mg.kg$^{-1}$ | 0.1 | 5.334 | 1 | 0 | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| Dimethylphthalate | mg.kg$^{-1}$ | 0.1 | | 1 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| 2,6-Dinitrotoluene | mg.kg$^{-1}$ | 0.1 | 1.469 | 1 | 0 | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | <0.1 | |
| 2,4-Dinitrotoluene | mg.kg$^{-1}$ | 0.2 | 2.774 | 1 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| Dibenzofuran | mg.kg$^{-1}$ | 0.2 | | 1 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| 4-Chlorophenyl phenyl ether | mg.kg$^{-1}$ | 0.3 | | 1 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| Diethyl phthalate | mg.kg$^{-1}$ | 0.2 | | 1 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| 4-Nitroaniline | mg.kg$^{-1}$ | 0.2 | | 1 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| Azobenzene | mg.kg$^{-1}$ | 0.3 | | 1 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| Bromophenyl phenyl ether | mg.kg$^{-1}$ | 0.2 | | 1 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| Hexachlorobenzene | mg.kg$^{-1}$ | 0.3 | | 1 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| Carbazole | mg.kg$^{-1}$ | 0.3 | | 1 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| Dibutyl phthalate | mg.kg$^{-1}$ | 0.2 | | 1 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | <0.2 | |
| Anthraquinone | mg.kg$^{-1}$ | 0.3 | | 1 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |
| Butyl benzyl phthalate | mg.kg$^{-1}$ | 0.3 | 2615.035 | 1 | 0 | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | <0.3 | |

MGR = Made Ground
OM = Oadby Member

| NUMBER OF SAMPLES: 11 | | | | | | | | | Sample Location | MW25-02 | MW25-03 | MW25-03 | MW25-03-DUP | MW25-06 | MW25-06 | MW25-06-DUP | TP25-01 | TP25-02 | TP25-02 | TP25-03 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Depth (m bgl) | 1.50 | 1.20 | 3.00 | 3.00 | 1.00 | 2.50 | 2.50 | 1.00 | 1.00 | 3.60 | 1.40 |
| | | | CRITERIA 1 | | CRITERIA 1 | | | | Date Sampled | 03/02/2025 | 03/02/2025 | 03/02/2025 | 03/02/2025 | 05/02/2025 | 06/02/2025 | 06/02/2025 | 03/02/2025 | 03/02/2025 | 03/02/2025 | 03/02/2025 |
| | | | | | | | | | Stratum | WCM | WCM | WCM | WCM | WCM | WCM | WCM | MGR | WCM | WCM | WCM |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Residential (with veg uptake C4SL)** | **No. Analyses** | **Exceedances** | **Min** | **Mean** | **Max** | Max ID | | | | | | | | | | | |
| Stone Content | % | 0.1 | | 11 | | <0.1 | <2.3 | 24.2 | TP25-02 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 24.20 | <0.1 | <0.1 |
| Moisture Content | % | 0.01 | | 11 | | 10 | 17.55 | 23 | MW25-03 | 18.00 | 23.00 | 19.00 | 18.00 | 15.00 | 21.00 | 20.00 | 13.00 | 10.00 | 20.00 | 16.00 |
| Total mass of sample received | kg | 0.1 | | 11 | | 0.6 | 0.7 | 0.8 | MW25-02 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.60 | 0.60 | 0.60 | 0.60 |
| Asbestos in Soil Screen / Identification Name | Type | | | | | | | | | | | | | | | | | | | |
| Asbestos in Soil | Detect | N/A | | 0 | | 0 | n/a | <0 | n/a | - | - | - | - | - | - | - | - | - | - | - |
| pH | pH Units | N/A | | 11 | | 8 | 8.3 | 8.6 | MW25-03-DUP | 8.50 | 8.20 | 8.40 | 8.60 | 8.60 | 8.00 | 8.10 | 8.30 | 8.60 | 8.20 | 8.20 |
| Sulphide | mg.kg$^{-1}$ | 1 | | 11 | | <1 | <58.1 | 210 | MW25-03-DUP | 2.00 | 2.90 | 120.00 | 210.00 | 76.00 | 27.00 | 19.00 | <1 | 16.00 | 160.00 | 5.30 |
| Organic Matter | % | 0.1 | | 11 | | 0.3 | 1.2 | 1.7 | MW25-03 | 0.30 | 1.70 | 1.60 | 1.30 | 1.60 | 1.70 | 1.70 | 0.70 | 0.60 | 1.60 | 0.60 |
| Fraction Organic Carbon (FOC) | N/A | 0.001 | | 1 | | 0.0092 | 0.009 | 0.0092 | MW25-03 | | | 0.0092 | | | | | | | | |
| Cyanide (Total) (as CN) | mg.kg$^{-1}$ | 1 | | 11 | | <1 | <1 | <1 | n/a | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Complexed cyanide | mg.kg$^{-1}$ | 1 | | 11 | | <1 | <1 | <1 | n/a | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Easily liberatable cyanide | mg.kg$^{-1}$ | 1 | 1.44 | 11 | 0 | <1 | <1 | <1 | n/a | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | mg.kg$^{-1}$ | 5 | | 11 | | <5 | <5 | <5 | n/a | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Water Soluble SO4 16hr extraction (2:1) | mg.kg$^{-1}$ | 2.5 | | 11 | | 66 | 224.3 | 470 | MW25-06 | 66.00 | 300.00 | 270.00 | 300.00 | 470.00 | 260.00 | 270.00 | 100.00 | 130.00 | 210.00 | 91.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg.l$^{-1}$ | 1.25 | | 11 | | 33.1 | 112.97 | 234 | MW25-06 | 33.10 | 152.00 | 137.00 | 152.00 | 234.00 | 131.00 | 136.00 | 51.20 | 65.80 | 105.00 | 45.60 |
| Chloride | mg.kg$^{-1}$ | 1 | | 11 | | 13 | 42.8 | 75 | TP25-03 | 21.00 | 48.00 | 31.00 | 37.00 | 71.00 | 60.00 | 60.00 | 38.00 | 17.00 | 13.00 | 75.00 |
| Sulphur (Elemental) | mg.kg$^{-1}$ | 5 | | 11 | | <5 | <15.4 | 69 | TP25-02 | <5 | 7.90 | 17.00 | 11.00 | 32.00 | 7.90 | <5 | <5 | 69.00 | <5 | <5 |
| Ammonium as NH4 | mg.kg$^{-1}$ | 0.5 | | 11 | | <0.5 | <1.3 | 5.1 | TP25-01 | 0.90 | 1.60 | <0.5 | <0.5 | 1.40 | <0.5 | <0.5 | 5.10 | <0.5 | <0.5 | 2.50 |
| Loss on Ignition | % | 0.2 | | 11 | | 1.1 | 2.1 | 4 | MW25-03 | 1.10 | 4.00 | 1.90 | 1.80 | 1.90 | 3.40 | 3.20 | 1.90 | 1.10 | 1.70 | 1.60 |
| Catechol | mg.kg$^{-1}$ | 0.1 | | 11 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | mg.kg$^{-1}$ | 0.1 | | 11 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | mg.kg$^{-1}$ | 0.3 | | 11 | | <0.3 | <0.3 | <0.3 | n/a | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | mg.kg$^{-1}$ | 0.2 | | 11 | | <0.2 | <0.2 | <0.2 | n/a | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | mg.kg$^{-1}$ | 0.1 | | 11 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | mg.kg$^{-1}$ | 0.1 | | 11 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | mg.kg$^{-1}$ | 0.1 | | 11 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | mg.kg$^{-1}$ | 1.4 | | 11 | | <1.4 | <1.4 | <1.4 | n/a | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | mg.kg$^{-1}$ | 0.4 | | 11 | | <0.4 | <0.4 | <0.4 | n/a | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | mg.kg$^{-1}$ | 0.05 | 15 | 11 | 0 | <0.05 | <0.06 | 0.16 | MW25-03 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthylene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Acenaphthene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluorene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Phenanthrene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.06 | 0.13 | MW25-03 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.060 | <0.05 | <0.05 |
| Anthracene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluoranthene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.06 | 0.1 | MW25-03 | <0.05 | 0.10 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.080 | <0.05 | <0.05 |
| Pyrene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | 0.08 | MW25-03 | <0.05 | 0.080 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.070 | <0.05 | <0.05 |
| Benzo[a]anthracene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Chrysene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | 0.06 | TP25-02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.060 | <0.05 | <0.05 |
| Benzo[b]fluoranthene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | 0.09 | TP25-02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.090 | <0.05 | <0.05 |
| Benzo[k]fluoranthene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[a]pyrene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | 0.06 | TP25-02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.060 | <0.05 | <0.05 |
| Indeno[1,2,3-cd]pyrene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[ghi]perylene | mg.kg$^{-1}$ | 0.05 | | 11 | | <0.05 | <0.05 | 0.06 | TP25-02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.060 | <0.05 | <0.05 |
| PAH 16 Total | mg.kg$^{-1}$ | 0.8 | | 11 | | <0.8 | <0.8 | <0.8 | n/a | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |
| Arsenic | mg.kg$^{-1}$ | 1 | | 11 | | 5.9 | 11.5 | 18 | MW25-06 | 13.00 | 7.90 | 6.50 | 5.90 | 18.00 | 12.00 | 10.00 | 14.00 | 18.00 | 11.00 | 10.00 |
| Boron | mg.kg$^{-1}$ | 0.2 | | 11 | | 0.5 | 0.8 | 1.3 | MW25-03 | 0.70 | 1.30 | 0.50 | 0.60 | 0.80 | 1.10 | 0.80 | 0.70 | 1.0 | 0.70 | 0.80 |
| Cadmium | mg.kg$^{-1}$ | 0.2 | | 11 | | <0.2 | <0.2 | 0.2 | MW25-03 | <0.2 | 0.20 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chromium (VI) | mg.kg$^{-1}$ | 1.2 | | 11 | | <1.2 | <1.2 | <1.2 | n/a | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | mg.kg$^{-1}$ | | | | | | | | | | | | | | | | | | | |
| Chromium (Total) | mg.kg$^{-1}$ | 1 | | 11 | | 12 | 22.5 | 41 | MW25-06-DUP | 12.00 | 34.00 | 14.00 | 14.00 | 21.00 | 38.00 | 41.00 | 23.00 | 17.00 | 13.00 | 20.00 |
| Copper | mg.kg$^{-1}$ | 1 | | 11 | | 11 | 19 | 25 | MW25-06 | 11.00 | 22.00 | 17.00 | 16.00 | 22.00 | 25.00 | 24.00 | 16.00 | 22.00 | 18.00 | 16.00 |
| Lead | mg.kg$^{-1}$ | 1 | | 11 | | 6.6 | 34.2 | 260 | TP25-02 | 6.60 | 13.00 | 9.00 | 9.30 | 12.00 | 15.00 | 16.00 | 14.00 | 260.00 | 9.90 | 11.00 |
| Mercury (inorganic) | mg.kg$^{-1}$ | 0.3 | | 11 | | <0.3 | <0.3 | <0.3 | n/a | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel | mg.kg$^{-1}$ | 1 | | 11 | | 11 | 23.9 | 38 | MW25-06 | 16.00 | 34.00 | 18.00 | 20.00 | 25.00 | 38.00 | 38.00 | 23.00 | 11.00 | 21.00 | 19.00 |
| Selenium | mg.kg$^{-1}$ | 1 | | 11 | | <1 | <1 | 1.1 | TP25-01 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.10 | <1 | <1 | <1 |
| Zinc | mg.kg$^{-1}$ | 1 | | 11 | | 32 | 60.2 | 82 | TP25-02 | 32.00 | 73.00 | 53.00 | 51.00 | 64.00 | 78.00 | 78.00 | 50.00 | 82.00 | 54.00 | 47.00 |
| Benzene | mg.kg$^{-1}$ | 0.005 | 0.202927877 | 3 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | <0.005 | <0.005 | <0.005 | | | | |
| Toluene | mg.kg$^{-1}$ | 0.005 | 130 | 3 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | <0.005 | <0.005 | <0.005 | | | | |
| Ethylbenzene | mg.kg$^{-1}$ | 0.005 | 47 | 3 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | <0.005 | <0.005 | <0.005 | | | | |
| Xylene (p & m-Xylene) | mg.kg$^{-1}$ | 0.008 | | 3 | | <0.008 | <0.008 | <0.008 | n/a | | | | | <0.008 | <0.008 | <0.008 | | | | |
| Xylene (o-Xylene) | mg.kg$^{-1}$ | 0.005 | 60 | 3 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | <0.005 | <0.005 | <0.005 | | | | |
| TPH (C10 - C40) | mg.kg$^{-1}$ | 10 | | 11 | | <10 | <11 | 21 | MW25-06 | <10 | <10 | <10 | <10 | <10 | 21.00 | <10 | <10 | <10 | <10 | <10 |

MGR = Made Ground
WCM = Wolston Clay Member

# Table B: Soil Analytical Data (>0.8 m bgl) (volatiles) - Area B

NUMBER OF SAMPLES: 123

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Residential (with veg uptake C4SL) | No. Analyses | CRITERIA 1 Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|
| Stone Content | % | 0.1 | | 122 | | <0.1 | <8.1 | 68.2 | TP25-21 |
| Moisture Content | % | 0.01 | | 122 | | <0.01 | <15.7 | 41 | MW25-04A |
| Total mass of sample received | kg | 0.1 | | 122 | | 0.1 | 0.6 | 0.8 | TP25-19 |
| Asbestos in Soil | Detect | N/A | | 9 | | 0 | 0 | <0 | n/a |
| Asbestos in Soil Screen / Identification Name | Type | N/A | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | | | | | | | |
| Asbestos Quantification Total | % | 0.001 | | | | | | | |
| pH | pH Units | N/A | | 122 | | 4.2 | 8.3 | 11.8 | MW25-22 |
| Water Soluble SO4 16hr extraction (2:1) | mg.kg$^{-1}$ | 2.5 | | 122 | | 21 | 1069.4 | 6900 | TP25-20 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg.L$^{-1}$ | 1.25 | | 122 | | 10.6 | 534.55 | 3460 | TP25-20 |
| Sulphide | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <59.7 | 1000 | MW25-25 |
| Ammonium as NH4 | mg.kg$^{-1}$ | 0.5 | | 122 | | <0.5 | <41.3 | 430 | MW25-16A |
| Organic Matter (automated) | % | 0.1 | | 122 | | <0.1 | <1.8 | 18 | MW25-04A |
| Fraction Organic Carbon (FOC) | N/A | 0.001 | | 22 | | <0.001 | <0.008 | 0.021 | MW25-09C |
| Total Organic Carbon (TOC) | % | 0.1 | | 10 | | <0.1 | <1.2 | 2.7 | VW25-18 |
| Loss on Ignition | % | 0.2 | | 122 | | <0.2 | <2.8 | 23 | MW25-04A |
| Cyanide (Total) (as CN) | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <37.7 | 1200 | MW25-14 |
| Complexed cyanide | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <37.4 | 1200 | MW25-14 |
| Easily liberatable cyanide | mg.kg$^{-1}$ | 1 | 1.44 | 122 | 8 | <1 | <1.3 | 12 | TP25-20 |
| Thiocyanate | mg.kg$^{-1}$ | 5 | | 122 | | <5 | <5.6 | 57 | TP25-20 |
| Chloride | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <90.3 | 1100 | TP25-20 |
| Sulphur (Elemental) | mg.kg$^{-1}$ | 5 | | 122 | | <5 | <334 | 5100 | TP25-20 |
| Catechol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | 0.39 | MW25-27 |
| Resorcinol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | <0.1 | n/a |
| Cresols (Total) | mg.kg$^{-1}$ | 0.3 | | 122 | | <0.3 | <0.8 | 54 | MW25-25 |
| Naphthols | mg.kg$^{-1}$ | 0.2 | | 122 | | <0.2 | <0.3 | 16 | MW25-25 |
| 2-Isopropylphenol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | <0.1 | n/a |
| Phenol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | 0.95 | MW25-25 |
| Trimethylphenol (2,3,5-) | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | <0.1 | n/a |
| Phenols (Total) | mg.kg$^{-1}$ | 1.4 | | 122 | | <1.4 | <3.7 | 240 | MW25-25 |
| Xylenols and Ethylphenols (Total) | mg.kg$^{-1}$ | 0.4 | | 122 | | <0.4 | <2.1 | 170 | MW25-25 |
| Naphthalene | mg.kg$^{-1}$ | 0.05 | 15 | 122 | 22 | <0.05 | <48.73 | 2400 | MW25-25 |
| Acenaphthylene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <10.78 | 760 | MW25-25 |
| Acenaphthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.22 | 140 | MW25-25 |
| Fluorene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <9.72 | 650 | MW25-25 |
| Phenanthrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <30.02 | 1900 | MW25-25 |
| Anthracene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <9.4 | 650 | MW25-25 |
| Fluoranthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <20.66 | 1200 | MW25-25 |
| Pyrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <17.18 | 940 | MW25-25 |
| Benzo[a]anthracene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.93 | 450 | MW25-25 |
| Chrysene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.06 | 390 | MW25-25 |
| Benzo[b]fluoranthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.69 | 410 | MW25-25 |
| Benzo[k]fluoranthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.2 | 170 | MW25-25 |
| Benzo[a]pyrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.27 | 390 | MW25-25 |
| Indeno[1,2,3-cd]pyrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.18 | 150 | MW25-25 |
| Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <0.72 | 35 | MW25-25 |
| Benzo[ghi]perylene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.36 | 160 | MW25-25 |
| PAH 16 Total | mg.kg$^{-1}$ | 0.8 | | 122 | | <0.8 | <190 | 10800 | MW25-25 |
| Arsenic | mg.kg$^{-1}$ | 1 | | 122 | | 1.1 | 14.4 | 130 | MW25-04A |
| Boron | mg.kg$^{-1}$ | 0.2 | | 122 | | 0.4 | 1.8 | 12 | TP25-18 |
| Cadmium | mg.kg$^{-1}$ | 0.2 | | 122 | | <0.2 | <0.2 | 1.4 | TP25-22 |
| Chromium (VI) | mg.kg$^{-1}$ | 1.2 | | 122 | | <1.2 | <1.2 | 1.6 | MW25-31A |
| Chromium (III) | mg.kg$^{-1}$ | | | | | | | | |
| Chromium (Total) | mg.kg$^{-1}$ | 1 | | 122 | | 1.9 | 26.5 | 690 | TP25-10 |
| Copper | mg.kg$^{-1}$ | 1 | | 122 | | 3.7 | 29.2 | 110 | TP25-19 |
| Lead | mg.kg$^{-1}$ | 1 | | 122 | | 1.7 | 104.8 | 5400 | MW25-19A |
| Mercury (inorganic) | mg.kg$^{-1}$ | 0.3 | | 122 | | <0.3 | <1.1 | 55 | MW25-33 |
| Nickel | mg.kg$^{-1}$ | 1 | | 122 | | 2.2 | 20 | 68 | MW25-36 |
| Selenium | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <1.4 | 24 | MW25-04A |
| Zinc | mg.kg$^{-1}$ | 1 | | 122 | | 9.6 | 77 | 610 | MW25-35 |
| Benzene | mg.kg$^{-1}$ | 0.005 | 0.202927877 | 107 | 25 | <0.005 | <1.608 | 46 | MW25-25 |
| Toluene | mg.kg$^{-1}$ | 0.005 | 130 | 107 | 0 | <0.005 | <1.854 | 42 | MW25-25 |
| Ethylbenzene | mg.kg$^{-1}$ | 0.005 | 47 | 107 | 0 | <0.005 | <1.736 | 37 | MW25-20 |
| Xylene (p & m-Xylene) | mg.kg$^{-1}$ | 0.008 | | 107 | | <0.008 | <3.699 | 100 | MW25-20 |
| Xylene (o-Xylene) | mg.kg$^{-1}$ | 0.005 | 60 | 107 | 1 | <0.005 | <2.377 | 67 | MW25-20 |
| Methyl tert-butyl ether | mg.kg$^{-1}$ | 0.005 | | 49 | | <0.005 | <0.005 | <0.005 | n/a |
| TPH (C10 - C40) | mg.kg$^{-1}$ | 10 | | 74 | | <10 | <83.4 | 1,200 | MW25-35 |
| Aliphatic C5 - C6 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <0.03 | 0 | VW25-18 |
| Aliphatic C6 - C8 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <0.75 | 28 | MW25-20 |
| Aliphatic C8 – C10 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <4.16 | 120 | MW25-20 |
| Aliphatic C10 – C12 | mg.kg$^{-1}$ | 1 | | 53 | | <1 | <18.1 | 220 | MW25-20 |
| Aliphatic C12 – C16 | mg.kg$^{-1}$ | 2 | | 53 | | <2 | <78.7 | 960 | MW25-20 |
| Aliphatic C16 – C21 | mg.kg$^{-1}$ | 8 | | 53 | | <8 | <87.7 | 1000 | VW25-18 |
| Aliphatic C21 – C35 | mg.kg$^{-1}$ | 8 | | 53 | | <8 | <87.2 | 840 | TP25-10 |
| Aliphatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <274.9 | 2100 | VW25-18 |
| Aromatic C5 - C7 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <2.88 | 46 | MW25-25 |
| Aromatic C7 - C8 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <3.77 | 42 | MW25-25 |
| Aromatic C8 – C10 | mg.kg$^{-1}$ | 0.02 | | 53 | | <0.02 | <18.01 | 250 | MW25-20 |
| Aromatic C10 – C12 | mg.kg$^{-1}$ | 1 | | 53 | | <1 | <101.9 | 1800 | MW25-25 |
| Aromatic C12 – C16 | mg.kg$^{-1}$ | 2 | | 53 | | <2 | <212.4 | 3500 | MW25-25 |
| Aromatic C16 – C21 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <321.5 | 6000 | MW25-25 |
| Aromatic C21 – C35 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <223 | 4200 | MW25-25 |
| Aromatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <878.3 | 16000 | MW25-25 |
| Chloromethane | mg.kg$^{-1}$ | 0.005 | 0.0119 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Chloroethane | mg.kg$^{-1}$ | 0.005 | 11.791 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Bromomethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Vinyl chloride (Chloroethene) | mg.kg$^{-1}$ | 0.005 | 0.0064 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Trichlorofluoromethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,1-Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.326 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Trans 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.9 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1-Dichloroethane | mg.kg$^{-1}$ | 0.005 | 3.47 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 2,2-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Trichloromethane (Chloroform) | mg.kg$^{-1}$ | 0.005 | 0.91 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1,1-Trichloroethane (TCA) | mg.kg$^{-1}$ | 0.005 | 8.8 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-Dichloroethane | mg.kg$^{-1}$ | 0.007 | 0.11 | 16 | 0 | <0.007 | <0.007 | <0.007 | n/a |
| 1,1-Dichloropropene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Cis 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.46 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Carbon tetrachloride (Tetrachloromethane) | mg.kg$^{-1}$ | 0.005 | 0.026 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-Dichloropropane | mg.kg$^{-1}$ | 0.006 | 0.0338 | 16 | 0 | <0.006 | <0.006 | <0.006 | n/a |
| Trichloroethylene | mg.kg$^{-1}$ | 0.01 | 0.0093 | 16 | 0 | <0.01 | <0.01 | <0.01 | n/a |
| Dibromomethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Bromodichloromethane | mg.kg$^{-1}$ | 0.005 | 0.0239 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Cis-1,3-dichloropropene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Trans-1,3-dichloropropene | mg.kg$^{-1}$ | 0.01 | | 16 | | <0.01 | <0.01 | <0.01 | n/a |
| 1,1,2 Trichloroethane | mg.kg$^{-1}$ | 0.006 | 0.923 | 16 | 0 | <0.006 | <0.006 | <0.006 | n/a |
| 1,3-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Dibromochloromethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Tetrachloroethylene | mg.kg$^{-1}$ | 0.005 | 0.31 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-Dibromoethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| ChloroBenzene | mg.kg$^{-1}$ | 0.005 | 0.46 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.2 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Styrene | mg.kg$^{-1}$ | 0.005 | 19.448 | 16 | 1 | <0.005 | <1.868 | 29 | MW25-25 |
| Bromoform | mg.kg$^{-1}$ | 0.005 | 4.548 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Iso-propylbenzene | mg.kg$^{-1}$ | 0.005 | 15.953 | 16 | 0 | <0.005 | <0.3 | 1.1 | VW25-18 |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.6 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Bromobenzene | mg.kg$^{-1}$ | 0.005 | 1.258 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| n-Propylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.638 | 2.4 | MW25-14 |
| 2-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 4-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,3,5-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <2.609 | 7.6 | TP25-20 |
| tert-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | 0.517 | 16 | 12 | <0.005 | <7.671 | 27 | MW25-14 |
| sec-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 0.4 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| p-Isopropyltoluene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.242 | 1.3 | MW25-14 |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 45.847 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 23.08 | 13 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.076 | 0.79 | VW25-18 |
| 1,2-Dibromo-3-chloropropane | mg.kg$^{-1}$ | 0.008 | | 16 | | <0.008 | <0.008 | <0.008 | n/a |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 2.58 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,2,3-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 1.477 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Aniline | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.2 | 0.4 | VW25-18 |
| Phenol | mg.kg$^{-1}$ | 0.2 | 280 | 7 | 0 | <0.2 | <0.5 | 2.4 | MW25-25 |
| 2-chlorophenol | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| Bis(2-chloroethyl)ether | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 0.4 | 7 | 0 | <0.2 | <0.2 | <0.2 | n/a |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.1 | 23.08 | 7 | 0 | <0.1 | <0.1 | <0.1 | n/a |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 45.847 | 7 | 0 | <0.2 | <0.2 | <0.2 | n/a |
| Bis(2-chloroisopropyl)ether | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| 2-Methylphenol | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <8.1 | 55 | MW25-25 |
| Hexachloroethane | mg.kg$^{-1}$ | 0.05 | 0.287 | 7 | 0 | <0.05 | <0.05 | <0.05 | n/a |
| Nitrobenzene | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| 4-Methylphenol | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <13.2 | 91 | MW25-25 |
| Isophorone | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| 2-Nitrophenol | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| 2,4-Dimethylphenol | mg.kg$^{-1}$ | 0.3 | 34.117 | 7 | 1 | <0.3 | <31.7 | 220 | MW25-25 |
| Bis(2-chloroethoxy)methane | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.3 | 2.58 | 7 | 0 | <0.3 | <0.3 | <0.3 | n/a |
| 2,4-Dichlorophenol | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| 4-Chloroaniline | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| 4-Chloro-3-methylphenol | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| 2,4,6-Trichlorophenol | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| 2,4,5-Trichlorophenol | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| 2-Methylnaphthalene | mg.kg$^{-1}$ | 0.1 | | 7 | | 0.2 | 103.9 | 620 | MW25-25 |
| 2-Chloronaphthalene | mg.kg$^{-1}$ | 0.1 | 5.334 | 7 | 0 | <0.1 | <0.1 | <0.1 | n/a |
| Dimethylphthalate | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| 2,6-Dinitrotoluene | mg.kg$^{-1}$ | 0.1 | 1.469 | 7 | 0 | <0.1 | <0.1 | <0.1 | n/a |
| 2,4-Dinitrotoluene | mg.kg$^{-1}$ | 0.2 | 2.774 | 7 | 0 | <0.2 | <0.2 | <0.2 | n/a |
| Dibenzofuran | mg.kg$^{-1}$ | 0.2 | | 7 | | 2.5 | 82.3 | 550 | MW25-25 |
| 4-Chlorophenyl phenyl ether | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| Diethyl phthalate | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| 4-Nitroaniline | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| Azobenzene | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| Bromophenyl phenyl ether | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| Hexachlorobenzene | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| Carbazole | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <47.3 | 320 | MW25-25 |
| Dibutyl phthalate | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| Anthraquinone | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <2.9 | 14 | MW25-25 |
| Butyl benzyl phthalate | mg.kg$^{-1}$ | 0.3 | 2615.035 | 7 | 0 | <0.3 | <0.5 | 1.8 | MW25-14 |
| PCB Congener 28 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 52 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 101 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 118 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 138 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 153 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 180 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| Total PCBs | mg.kg$^{-1}$ | 0.007 | | 1 | | <0.007 | <0.007 | <0.007 | n/a |

| Sample Location | MW25-01 | MW25-01 | MW25-04A | MW25-04A | MW25-04-DUP | MW25-07 | MW25-07 | MW25-07 | MW25-35 | MW25-35 | TP25-19 | TP25-19 | TP25-22 | TP25-22 | TP25-23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Settling tanks | Settling tanks | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip |
| Depth (m bgl) | 1.40 | 3.80 | 1.30 | 2.10 | 2.1 | 1.50 | 5.00 | 8.40 | 1.00 | 1.50 | 1.60 | 3.70 | 1.00 | 2.40 | 0.90 |
| Date Sampled | 03/02/2025 | 03/02/2025 | 03/02/2025 | 03/02/2025 | 03/02/2025 | 06/02/2025 | 06/02/2025 | 06/02/2025 | 27/02/2025 | 27/02/2025 | 11/02/2025 | 11/02/2025 | 12/02/2025 | 12/02/2025 | 13/02/2025 |
| Stratum | WS&G | WCM | WS&G | WS&G | WS&G | MGR | WS&G | WCM | MGR | BC | MGR | WS&G | MGR | MGR | MGR |
| Stone Content | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 24.40 | <0.1 | 29.00 | <0.1 | <0.1 | <0.1 | 45.80 |
| Moisture Content | 19.00 | 18.00 | 41.00 | 20.00 | 21.00 | 16.00 | 18.00 | 16.00 | 9.00 | 14.00 | 21.00 | 23.00 | 15.00 | 17.00 | 16.00 |
| Total mass of sample received | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.50 | 0.50 | 0.70 | 0.80 | 0.20 | 0.60 | 0.60 |
| Asbestos in Soil | - | - | - | - | - | - | - | - | Not-detected | - | - | - | - | - | - |
| Asbestos in Soil Screen / Identification Name | | | | | | | | | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | | | | | | | | | | |
| Asbestos Quantification Total | | | | | | | | | | | | | | | |
| pH | 8.20 | 8.30 | 6.00 | 8.00 | 8.60 | 4.20 | 8.40 | 8.30 | 6.80 | 7.00 | 7.50 | 8.10 | 8.90 | 8.00 | 10.00 |
| Water Soluble SO4 16hr extraction (2:1) | 74.00 | 450.00 | 4000.00 | 200.00 | 160.00 | 3400.00 | 130.00 | 340.00 | 1700.00 | 3200.00 | 3200.00 | 1100.00 | 3500.00 | 4200.00 | 3100.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 36.90 | 223.00 | 1990.00 | 97.60 | 82.40 | 1700.00 | 67.50 | 169.00 | 856.00 | 1580.00 | 1590.00 | 570.00 | 1760.00 | 2100.00 | 1570.00 |
| Sulphide | 6.80 | 100.00 | 58.00 | 3.60 | 3.00 | 1.50 | <1 | 110.00 | 3.50 | 1.80 | 32.00 | 46.00 | <1 | 6.00 | 21.00 |
| Ammonium as NH4 | 13.00 | 0.70 | 210.00 | 11.00 | 13.00 | 3.80 | 1.50 | 3.10 | <0.5 | <0.5 | 45.00 | 27.00 | <0.5 | <0.5 | <0.5 |
| Organic Matter (automated) | 0.30 | 1.70 | 18.00 | 0.40 | 0.40 | 4.40 | <0.1 | 2.50 | 7.10 | 1.50 | 4.40 | 0.70 | 0.90 | 3.00 | 1.0 |
| Fraction Organic Carbon (FOC) | 0.0019 | | | 0.0022 | | | | 0.014 | | 0.0086 | | 0.0039 | | | |
| Total Organic Carbon (TOC) | | | | | | | | | | | 2.60 | | | 1.80 | |
| Loss on Ignition | 0.80 | 1.80 | 23.00 | 0.60 | 0.50 | 6.50 | 0.40 | 3.90 | 8.50 | 2.40 | 8.10 | 0.90 | 1.20 | 4.80 | 2.50 |
| Cyanide (Total) (as CN) | <1 | <1 | 1.40 | <1 | <1 | 4.00 | <1 | <1 | 280.00 | 2.80 | 84.00 | 12.00 | 2.10 | 130.00 | <1 |
| Complexed cyanide | <1 | <1 | 1.40 | <1 | <1 | 4.00 | <1 | <1 | 280.00 | 2.80 | 84.00 | 12.00 | 2.10 | 130.00 | <1 |
| Easily liberatable cyanide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloride | 54.00 | 46.00 | 280.00 | 67.00 | 72.00 | 140.00 | 18.00 | 40.00 | 37.00 | 17.00 | 24.00 | 66.00 | 11.00 | 63.00 | 16.00 |
| Sulphur (Elemental) | 8.10 | 9.40 | 1800.00 | <5 | <5 | 13.00 | <5 | <5 | 33.00 | 11.00 | 250.00 | 220.00 | 17.00 | 37.00 | 8.20 |
| Catechol | <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 |
| Resorcinol | <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 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | <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-Isopropylphenol | <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 |
| Phenol | <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 |
| Trimethylphenol (2,3,5-) | <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 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | <0.05 | <0.05 | 0.43 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **20.00** | <0.05 | 2.70 | 1.10 | <0.05 | 0.41 | 0.10 |
| Acenaphthylene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.14 | <0.05 | <0.05 | 19.00 | <0.05 | 6.50 | 0.21 | <0.05 | 0.70 | <0.05 |
| Acenaphthene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 3.70 | <0.05 | 1.50 | 0.14 | <0.05 | 0.21 | <0.05 |
| Fluorene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 11.00 | <0.05 | 2.90 | 0.33 | <0.05 | 0.39 | <0.05 |
| Phenanthrene | <0.05 | <0.05 | 0.13 | <0.05 | <0.05 | 0.82 | <0.05 | <0.05 | 130.00 | <0.05 | 13.00 | 1.30 | 0.15 | 3.00 | 0.22 |
| Anthracene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | 33.00 | <0.05 | 7.00 | 0.54 | 0.050 | 1.10 | <0.05 |
| Fluoranthene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 2.60 | <0.05 | <0.05 | 130.00 | <0.05 | 39.00 | 2.30 | 0.25 | 6.70 | 0.40 |
| Pyrene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 2.40 | <0.05 | <0.05 | 110.00 | <0.05 | 37.00 | 2.20 | 0.22 | 7.00 | 0.39 |
| Benzo[a]anthracene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.70 | <0.05 | <0.05 | 56.00 | <0.05 | 23.00 | 0.99 | 0.17 | 3.70 | 0.15 |
| Chrysene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 2.00 | <0.05 | <0.05 | 53.00 | <0.05 | 22.00 | 1.10 | 0.15 | 4.00 | 0.16 |
| Benzo[b]fluoranthene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 2.90 | <0.05 | <0.05 | 47.00 | <0.05 | 35.00 | 1.50 | 0.20 | 5.50 | 0.16 |
| Benzo[k]fluoranthene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.10 | <0.05 | <0.05 | 23.00 | <0.05 | 16.00 | 0.47 | 0.090 | 2.50 | 0.12 |
| Benzo[a]pyrene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 2.50 | <0.05 | <0.05 | 39.00 | <0.05 | 37.00 | 1.20 | 0.19 | 4.60 | 0.16 |
| Indeno[1,2,3-cd]pyrene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.30 | <0.05 | <0.05 | 21.00 | <0.05 | 20.00 | 0.58 | 0.090 | 2.60 | 0.090 |
| Dibenz(a,h)anthracene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | 5.30 | <0.05 | 3.70 | 0.10 | <0.05 | 0.53 | <0.05 |
| Benzo[ghi]perylene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.20 | <0.05 | <0.05 | 18.00 | <0.05 | 22.00 | 0.64 | 0.11 | 2.70 | 0.12 |
| PAH 16 Total | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | 19.10 | <0.8 | <0.8 | 727.00 | <0.8 | 288.00 | 14.60 | 1.66 | 45.40 | 2.07 |
| Arsenic | 2.90 | 14.00 | 130.00 | 2.40 | 2.40 | 17.00 | 3.40 | 11.00 | 33.00 | 13.00 | 100.00 | 9.10 | 19.00 | 32.00 | 17.00 |
| Boron | 0.90 | 0.70 | 3.60 | 0.50 | 0.40 | 3.20 | 0.40 | 0.50 | 3.50 | 2.00 | 4.10 | 1.0 | 4.60 | 6.70 | 1.60 |
| Cadmium | 0.60 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 1.0 | <0.2 | 0.30 | 1.40 | <0.2 | 0.50 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | | | | | | |
| Chromium (Total) | 8.80 | 18.00 | 17.00 | 8.90 | 8.00 | 20.00 | 6.30 | 31.00 | 31.00 | 38.00 | 23.00 | 12.00 | 25.00 | 62.00 | 25.00 |
| Copper | 11.00 | 21.00 | 29.00 | 16.00 | 13.00 | 42.00 | 7.50 | 19.00 | 100.00 | 29.00 | 110.00 | 17.00 | 31.00 | 99.00 | 26.00 |
| Lead | 5.50 | 14.00 | 14.00 | 7.10 | 6.50 | 110.00 | 5.80 | 13.00 | 26.00 | 21.00 | 670.00 | 33.00 | 45.00 | 200.00 | 28.00 |
| Mercury (inorganic) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 0.30 | <0.3 | <0.3 | 0.30 | <0.3 | 0.50 | <0.3 | <0.3 | 1.50 | <0.3 |
| Nickel | 26.00 | 19.00 | 39.00 | 10.00 | 9.80 | 27.00 | 7.50 | 30.00 | 36.00 | 56.00 | 48.00 | 16.00 | 30.00 | 43.00 | 22.00 |
| Selenium | <1 | <1 | 24.00 | 1.20 | 1.30 | <1 | <1 | <1 | 1.30 | <1 | <1 | <1 | <1 | 1.30 | <1 |
| Zinc | 71.00 | 54.00 | 56.00 | 39.00 | 34.00 | 110.00 | 27.00 | 59.00 | 58.00 | 610.00 | 200.00 | 67.00 | 410.00 | 160.00 | 340.00 |
| Benzene | | | | | | <0.005 | <0.005 | <0.005 | 0.032 | <0.005 | 0.093 | | <0.005 | <0.005 | <0.005 |
| Toluene | | | | | | <0.005 | <0.005 | <0.005 | 0.010 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 |
| Ethylbenzene | | | | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.077 | | <0.005 | <0.005 | <0.005 |
| Xylene (p & m-Xylene) | | | | | | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | 0.10 | | <0.008 | <0.008 | <0.008 |
| Xylene (o-Xylene) | | | | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.074 | | <0.005 | <0.005 | <0.005 |
| Methyl tert-butyl ether | | | | | | | | | <0.005 | | | | | | <0.005 |
| TPH (C10 - C40) | <10 | <10 | <10 | 88.00 | <10 | 37.00 | <10 | <10 | 1200.00 | <10 | | 44.00 | <10 | 140.00 | 300.00 |
| Aliphatic C5 - C6 | | | | | | | | | <0.01 | | <0.01 | | | | <0.01 |
| Aliphatic C6 - C8 | | | | | | | | | <0.01 | | <0.01 | | | | <0.01 |
| Aliphatic C8 – C10 | | | | | | | | | <0.01 | | 0.27 | | | | <0.01 |
| Aliphatic C10 – C12 | | | | | | | | | 17.00 | | 47.00 | | | | <1 |
| Aliphatic C12 – C16 | | | | | | | | | 27.00 | | 48.00 | | | | 5.80 |
| Aliphatic C16 – C21 | | | | | | | | | 34.00 | | 18.00 | | | | 40.00 |
| Aliphatic C21 – C35 | | | | | | | | | 75.00 | | 130.00 | | | | 91.00 |
| Aliphatic C5 – C35 | | | | | | | | | 150.00 | | 240.00 | | | | 140.00 |
| Aromatic C5 - C7 | | | | | | | | | 0.033 | | 0.097 | | | | <0.01 |
| Aromatic C7 - C8 | | | | | | | | | 0.011 | | <0.01 | | | | <0.01 |
| Aromatic C8 – C10 | | | | | | | | | <0.02 | | 0.40 | | | | <0.02 |
| Aromatic C10 – C12 | | | | | | | | | 23.00 | | 23.00 | | | | <1 |
| Aromatic C12 – C16 | | | | | | | | | 180.00 | | 47.00 | | | | <2 |
| Aromatic C16 – C21 | | | | | | | | | 510.00 | | 120.00 | | | | <10 |
| Aromatic C21 – C35 | | | | | | | | | 310.00 | | 370.00 | | | | 51.00 |
| Aromatic C5 – C35 | | | | | | | | | 1000.00 | | 560.00 | | | | 51.00 |
| PCB Congener 28 | | | | | | | | | <0.001 | | | | | | |
| PCB Congener 52 | | | | | | | | | <0.001 | | | | | | |
| PCB Congener 101 | | | | | | | | | <0.001 | | | | | | |
| PCB Congener 118 | | | | | | | | | <0.001 | | | | | | |
| PCB Congener 138 | | | | | | | | | <0.001 | | | | | | |
| PCB Congener 153 | | | | | | | | | <0.001 | | | | | | |
| PCB Congener 180 | | | | | | | | | <0.001 | | | | | | |
| Total PCBs | | | | | | | | | <0.007 | | | | | | |

| Sample Location | MW25-36 | MW25-36 | MW25-36-DUP | MW25-13A | MW25-13A | MW25-33 | MW25-33 | MW25-33 | TP25-04 | TP25-05 | TP25-05 | TP25-06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Reservoir | Reservoir | Reservoir | GH1 | GH1 | GH1 | GH1 | GH1 | GH1 | GH1 | GH1 | GH1 |
| Depth (m bgl) | 2.90 | 4.60 | 4.60 | 2.70 | 7.20 | 1.10 | 4.00 | 6.00 | 2.00 | 2.10 | 2.20 | 1.90 |
| Date Sampled | 26/02/2025 | 26/02/2025 | 26/02/2025 | 11/02/2025 | 12/02/2025 | 24/02/2025 | 24/02/2025 | 24/02/2025 | 04/02/2025 | 04/02/2025 | 04/02/2025 | 05/02/2025 |
| Stratum | MGR | WCM | WCM | MGR | WS&G | MGR | MGR | MGR | MGR | MGR | MGR | MGR |
| Stone Content | 52.50 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 34.00 | 51.20 | 24.20 | <0.1 |
| Moisture Content | 16.00 | 19.00 | 20.00 | 15.00 | 13.00 | 7.50 | 8.30 | 20.00 | 17.00 | 17.00 | 12.00 | 17.00 |
| Total mass of sample received | 0.50 | 0.50 | 0.60 | 0.70 | 0.60 | 0.80 | 0.80 | 0.70 | 0.60 | 0.60 | 0.60 | 0.60 |
| Asbestos in Soil | - | - | - | - | - | Detected | - | - | - | - | - | - |
| Asbestos in Soil Screen / Identification Name | | | | | | Chrysotile, Crocidolite | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | Loose Fibres, Loose Fibrous Debris | | | | | | |
| Asbestos Quantification Total | | | | | | 0.003 | | | | | | |
| pH | 7.80 | 7.90 | 8.20 | 7.60 | 8.50 | 7.90 | 8.70 | 8.70 | 9.00 | 8.90 | 8.20 | 8.20 |
| Water Soluble SO4 16hr extraction (2:1) | 650.00 | 220.00 | 180.00 | 1200.00 | 170.00 | 2800.00 | 300.00 | 110.00 | 1400.00 | 1600.00 | 4800.00 | 330.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 324.00 | 110.00 | 90.20 | 596.00 | 85.80 | 1400.00 | 151.00 | 53.00 | 685.00 | 814.00 | 2420.00 | 167.00 |
| Sulphide | 110.00 | 8.60 | 10.00 | 73.00 | 43.00 | 9.60 | 1.20 | 59.00 | 5.10 | 23.00 | 78.00 | 28.00 |
| Ammonium as NH4 | 6.70 | 4.20 | 4.40 | 4.90 | 14.00 | <0.5 | <0.5 | 83.00 | <0.5 | 0.80 | 17.00 | 10.00 |
| Organic Matter (automated) | 3.40 | 1.70 | 1.40 | 2.90 | 0.50 | 2.70 | 0.20 | 7.60 | 0.60 | 0.60 | 2.30 | 1.10 |
| Fraction Organic Carbon (FOC) | | | | 0.017 | | | | | | 0.0037 | | |
| Total Organic Carbon (TOC) | 2.00 | | | | | | | | | | | |
| Loss on Ignition | 5.50 | 1.70 | 1.40 | 3.00 | 0.50 | 3.40 | 0.70 | 7.70 | 1.70 | 1.30 | 2.40 | 3.10 |
| Cyanide (Total) (as CN) | 64.00 | <1 | <1 | 130.00 | <1 | 24.00 | <1 | 270.00 | 2.30 | 1.50 | 61.00 | 1.90 |
| Complexed cyanide | 61.00 | <1 | <1 | 120.00 | <1 | 24.00 | <1 | 260.00 | 2.30 | 1.50 | 61.00 | 1.90 |
| Easily liberatable cyanide | **3.00** | <1 | <1 | **1.80** | <1 | <1 | <1 | **8.40** | <1 | <1 | <1 | <1 |
| Thiocyanate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloride | 66.00 | 54.00 | 53.00 | 82.00 | 17.00 | 17.00 | 6.10 | 84.00 | 25.00 | 45.00 | 120.00 | 32.00 |
| Sulphur (Elemental) | 380.00 | 10.00 | 12.00 | 480.00 | 150.00 | 26.00 | 10.00 | 770.00 | 10.00 | 54.00 | 1200.00 | 88.00 |
| Catechol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | <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-Isopropylphenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | 23.00 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | 23.00 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | 5.10 | <0.05 | <0.05 | **72.00** | 0.88 | 2.90 | **33.00** | **750.00** | 0.40 | 0.33 | 2.80 | **21.00** |
| Acenaphthylene | 0.44 | <0.05 | <0.05 | 13.00 | 0.080 | 4.20 | 0.77 | 130.00 | 0.24 | 0.52 | 3.50 | 2.60 |
| Acenaphthene | 0.25 | <0.05 | <0.05 | 5.20 | 0.28 | 1.80 | 0.35 | 43.00 | <0.05 | 0.17 | 3.20 | 4.30 |
| Fluorene | 0.52 | <0.05 | <0.05 | 16.00 | 0.10 | 6.30 | 0.43 | 96.00 | 0.050 | 0.30 | 7.40 | 4.40 |
| Phenanthrene | 1.80 | <0.05 | <0.05 | 41.00 | 0.11 | 21.00 | 0.44 | 230.00 | 0.50 | 3.40 | 27.00 | 13.00 |
| Anthracene | 0.91 | <0.05 | <0.05 | 12.00 | <0.05 | 7.20 | 0.16 | 83.00 | 0.13 | 0.66 | 8.80 | 2.70 |
| Fluoranthene | 3.50 | <0.05 | <0.05 | 26.00 | <0.05 | 21.00 | 0.25 | 150.00 | 0.95 | 4.40 | 41.00 | 8.00 |
| Pyrene | 3.40 | <0.05 | <0.05 | 26.00 | <0.05 | 18.00 | 0.25 | 130.00 | 0.93 | 3.80 | 35.00 | 7.80 |
| Benzo[a]anthracene | 1.40 | <0.05 | <0.05 | 11.00 | <0.05 | 10.00 | 0.21 | 41.00 | 0.63 | 2.10 | 19.00 | 3.70 |
| Chrysene | 1.90 | <0.05 | <0.05 | 11.00 | <0.05 | 10.00 | 0.22 | 38.00 | 0.70 | 2.10 | 16.00 | 3.30 |
| Benzo[b]fluoranthene | 1.30 | <0.05 | <0.05 | 9.70 | <0.05 | 10.00 | 0.29 | 33.00 | 1.10 | 2.60 | 18.00 | 3.50 |
| Benzo[k]fluoranthene | 0.47 | <0.05 | <0.05 | 4.80 | <0.05 | 5.30 | 0.15 | 19.00 | 0.53 | 1.10 | 9.90 | 1.40 |
| Benzo[a]pyrene | 0.85 | <0.05 | <0.05 | 10.00 | <0.05 | 10.00 | 0.26 | 34.00 | 0.97 | 2.20 | 19.00 | 3.30 |
| Indeno[1,2,3-cd]pyrene | 0.40 | <0.05 | <0.05 | 4.20 | <0.05 | 4.60 | 0.22 | 14.00 | 0.71 | 1.40 | 8.40 | 1.40 |
| Dibenz(a,h)anthracene | 0.11 | <0.05 | <0.05 | 0.99 | <0.05 | 0.99 | 0.070 | <0.05 | 0.14 | 0.32 | 2.00 | <0.05 |
| Benzo[ghi]perylene | 0.48 | <0.05 | <0.05 | 4.60 | <0.05 | 5.10 | 0.24 | 16.00 | 0.79 | 1.40 | 8.50 | 1.30 |
| PAH 16 Total | 22.70 | <0.8 | <0.8 | 268.00 | 1.45 | 139.00 | 36.80 | 1810.00 | 8.74 | 26.70 | 228.00 | 81.40 |
| Arsenic | 22.00 | 8.80 | 8.10 | 20.00 | 1.70 | 23.00 | 10.00 | 16.00 | 14.00 | 11.00 | 22.00 | 14.00 |
| Boron | 1.10 | 1.10 | 0.70 | 4.70 | 0.70 | 5.30 | 1.40 | 2.60 | 2.10 | 3.30 | 3.70 | 1.50 |
| Cadmium | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.80 | 0.30 | 0.30 | 0.50 | <0.2 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | | | |
| Chromium (Total) | 40.00 | 24.00 | 21.00 | 32.00 | 4.30 | 36.00 | 15.00 | 30.00 | 20.00 | 15.00 | 42.00 | 31.00 |
| Copper | 66.00 | 28.00 | 24.00 | 37.00 | 6.60 | 43.00 | 34.00 | 35.00 | 38.00 | 19.00 | 47.00 | 26.00 |
| Lead | 32.00 | 15.00 | 14.00 | 170.00 | 2.40 | 110.00 | 16.00 | 250.00 | 73.00 | 60.00 | 80.00 | 29.00 |
| Mercury (inorganic) | <0.3 | <0.3 | <0.3 | 2.00 | <0.3 | 0.90 | <0.3 | 55.00 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel | 68.00 | 28.00 | 24.00 | 25.00 | 4.40 | 31.00 | 12.00 | 20.00 | 17.00 | 15.00 | 30.00 | 32.00 |
| Selenium | 1.70 | <1 | <1 | 1.30 | <1 | 1.30 | <1 | 2.90 | <1 | <1 | <1 | <1 |
| Zinc | 110.00 | 61.00 | 58.00 | 180.00 | 15.00 | 120.00 | 43.00 | 170.00 | 130.00 | 85.00 | 86.00 | 80.00 |
| Benzene | 0.012 | <0.005 | <0.005 | **7.20** | 0.023 | <0.005 | **1.90** | **33.00** | | | | **0.37** |
| Toluene | 0.010 | <0.005 | <0.005 | 21.00 | <0.005 | <0.005 | 1.50 | 27.00 | | | | 0.19 |
| Ethylbenzene | <0.005 | <0.005 | <0.005 | 12.00 | 0.048 | <0.005 | 7.30 | 16.00 | | | | 1.60 |
| Xylene (p & m-Xylene) | 0.012 | <0.008 | <0.008 | 35.00 | <0.008 | <0.008 | 4.00 | 28.00 | | | | 0.59 |
| Xylene (o-Xylene) | 0.0080 | <0.005 | <0.005 | 19.00 | <0.005 | <0.005 | 3.70 | 24.00 | | | | 1.20 |
| Methyl tert-butyl ether | <0.005 | | | <0.005 | <0.005 | | <0.005 | <0.005 | | | | <0.005 |
| TPH (C10 - C40) | | <10 | <10 | | <10 | 300.00 | | | 11.00 | | | |
| Aliphatic C5 - C6 | <0.01 | | | <0.01 | <0.01 | | <0.01 | 0.21 | | <0.01 | <0.01 | <0.01 |
| Aliphatic C6 - C8 | <0.01 | | | 0.28 | <0.01 | | 0.13 | 2.00 | | <0.01 | <0.01 | <0.01 |
| Aliphatic C8 – C10 | 0.29 | | | 1.20 | <0.01 | | 1.10 | 27.00 | | <0.01 | <0.01 | 0.13 |
| Aliphatic C10 – C12 | 35.00 | | | 6.90 | <1 | | 3.10 | 89.00 | | <1 | 6.70 | 15.00 |
| Aliphatic C12 – C16 | 60.00 | | | 34.00 | <2 | | <2 | 470.00 | | 8.10 | 78.00 | 97.00 |
| Aliphatic C16 – C21 | 74.00 | | | 20.00 | <8 | | <8 | 580.00 | | 15.00 | 110.00 | 96.00 |
| Aliphatic C21 – C35 | 210.00 | | | 23.00 | <8 | | <8 | 450.00 | | 15.00 | 220.00 | 22.00 |
| Aliphatic C5 – C35 | 380.00 | | | 84.00 | <10 | | <10 | 1600.00 | | 39.00 | 410.00 | 230.00 |
| Aromatic C5 - C7 | 0.013 | | | 7.20 | 0.024 | | 1.90 | 32.00 | | <0.01 | 0.51 | 0.37 |
| Aromatic C7 - C8 | 0.014 | | | 21.00 | <0.01 | | 1.50 | 27.00 | | <0.01 | <0.01 | 0.19 |
| Aromatic C8 – C10 | 0.097 | | | 72.00 | 0.080 | | 18.00 | 79.00 | | <0.02 | 0.70 | 4.00 |
| Aromatic C10 – C12 | 7.30 | | | 28.00 | <1 | | 17.00 | 790.00 | | <1 | 10.00 | 24.00 |
| Aromatic C12 – C16 | 15.00 | | | 110.00 | <2 | | 4.80 | 1800.00 | | 10.00 | 100.00 | 110.00 |
| Aromatic C16 – C21 | 36.00 | | | 98.00 | <10 | | <10 | 2100.00 | | 30.00 | 260.00 | 88.00 |
| Aromatic C21 – C35 | 110.00 | | | 56.00 | <10 | | <10 | 2000.00 | | 31.00 | 290.00 | 28.00 |
| Aromatic C5 – C35 | 170.00 | | | 320.00 | <10 | | 44.00 | 6800.00 | | 72.00 | 660.00 | 250.00 |

| Sample Location | MW25-10 | MW25-10 | MW25-10 | MW25-30B | MW25-30B | MW25-30B | VW25-14 | TP25-07 | TP25-08 | TP25-09 | TP25-09 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | GH2 | GH2 | GH2 | GH2 | GH2 | GH2 | GH2 | GH2 | GH2 | GH2 | GH2 |
| Depth (m bgl) | 2.50 | 2.70-3.70 | 6.40 | 1.20 | 2.20 | 5.40 | 1.00 | 1.80 | 2.40 | 1.90 | 4.00 |
| Date Sampled | 07/02/2025 | 10/02/2025 | 10/02/2025 | 21/02/2025 | 21/02/2025 | 24/02/2025 | 17/02/2025 | 05/02/2025 | 05/02/2025 | 06/02/2025 | 06/02/2025 |
| Stratum | MGR | MGR | WCM | MGR | MGR | WCM | MGR | MGR | MGR | MGR | MGR |
| Stone Content | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 42.50 | 40.80 | <0.1 | <0.1 | <0.1 |
| Moisture Content | 18.00 | 30.00 | 19.00 | 13.00 | 17.00 | 14.00 | 5.60 | 7.40 | 21.00 | 17.00 | 20.00 |
| Total mass of sample received | 0.60 | 0.80 | 0.80 | 0.80 | 0.60 | 0.80 | 0.50 | 0.60 | 0.60 | 0.60 | 0.60 |
| Asbestos in Soil | - | - | - | Not-detected | - | - | - | - | - | - | - |
| Asbestos in Soil Screen / Identification Name | | | | | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | | | | | | |
| Asbestos Quantification Total | | | | | | | | | | | |
| pH | 8.80 | 9.70 | 8.20 | 8.40 | 8.90 | 8.30 | 9.80 | 11.00 | 8.60 | 8.40 | 8.80 |
| Water Soluble SO4 16hr extraction (2:1) | 2500.00 | 1300.00 | 290.00 | 150.00 | 2300.00 | 230.00 | 230.00 | 440.00 | 840.00 | 410.00 | 720.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 1230.00 | 646.00 | 143.00 | 73.50 | 1130.00 | 116.00 | 113.00 | 219.00 | 420.00 | 204.00 | 360.00 |
| Sulphide | 85.00 | 49.00 | 93.00 | 4.60 | 58.00 | 38.00 | 8.70 | 7.00 | 32.00 | 40.00 | 69.00 |
| Ammonium as NH4 | 36.00 | 14.00 | 24.00 | <0.5 | <0.5 | 10.00 | <0.5 | <0.5 | <0.5 | 5.10 | 8.30 |
| Organic Matter (automated) | 2.80 | 2.10 | 2.50 | 1.0 | 2.30 | 1.0 | <0.1 | <0.1 | 1.90 | 1.40 | 1.40 |
| Fraction Organic Carbon (FOC) | | | 0.015 | | | 0.0055 | | | | | |
| Total Organic Carbon (TOC) | | | | | | | <0.1 | | | | |
| Loss on Ignition | 3.60 | 4.10 | 2.60 | 1.70 | 3.00 | 1.70 | 0.50 | 1.0 | 2.50 | 2.10 | 2.20 |
| Cyanide (Total) (as CN) | 61.00 | 28.00 | <1 | <1 | 1.50 | <1 | <1 | <1 | 12.00 | <1 | 2.30 |
| Complexed cyanide | 61.00 | 28.00 | <1 | <1 | 1.50 | <1 | <1 | <1 | 12.00 | <1 | 2.30 |
| Easily liberatable cyanide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloride | 180.00 | 68.00 | 38.00 | 4.50 | 55.00 | 31.00 | 27.00 | 23.00 | 37.00 | 170.00 | 210.00 |
| Sulphur (Elemental) | 280.00 | 140.00 | 11.00 | 15.00 | 100.00 | 13.00 | <5 | 14.00 | 190.00 | 16.00 | 120.00 |
| Catechol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | **71.00** | **71.00** | 3.70 | 1.50 | **38.00** | 0.44 | 0.090 | 0.63 | 2.00 | 0.25 | 5.10 |
| Acenaphthylene | 23.00 | 24.00 | 0.28 | 0.78 | 16.00 | 0.090 | <0.05 | 0.67 | 3.90 | 0.30 | 2.70 |
| Acenaphthene | 6.70 | 5.30 | 0.060 | 0.20 | 4.90 | <0.05 | <0.05 | 0.19 | 1.20 | 1.30 | 1.30 |
| Fluorene | 24.00 | 21.00 | 0.17 | 0.46 | 18.00 | 0.10 | <0.05 | 0.76 | 4.90 | 1.20 | 3.50 |
| Phenanthrene | 63.00 | 52.00 | 0.37 | 2.30 | 48.00 | 0.36 | 0.31 | 2.90 | 16.00 | 3.80 | 9.10 |
| Anthracene | 17.00 | 15.00 | 0.090 | 0.60 | 13.00 | 0.10 | 0.050 | 0.79 | 5.10 | 0.71 | 2.90 |
| Fluoranthene | 26.00 | 21.00 | 0.17 | 2.60 | 24.00 | 0.26 | 0.46 | 1.80 | 18.00 | 2.60 | 5.80 |
| Pyrene | 28.00 | 24.00 | 0.18 | 2.50 | 27.00 | 0.29 | 0.38 | 2.00 | 17.00 | 2.30 | 6.60 |
| Benzo[a]anthracene | 13.00 | 12.00 | <0.05 | 1.30 | 12.00 | 0.11 | 0.22 | 0.91 | 9.30 | 0.54 | 3.00 |
| Chrysene | 12.00 | 11.00 | 0.090 | 1.40 | 11.00 | 0.11 | 0.24 | 0.94 | 7.70 | 0.58 | 3.10 |
| Benzo[b]fluoranthene | 9.00 | 8.90 | 0.060 | 1.80 | 10.00 | 0.14 | 0.32 | 0.95 | 8.50 | 0.50 | 3.20 |
| Benzo[k]fluoranthene | 3.40 | 3.80 | <0.05 | 0.64 | 3.80 | <0.05 | 0.090 | <0.05 | 3.20 | 0.23 | 1.20 |
| Benzo[a]pyrene | 9.10 | 9.70 | <0.05 | 1.50 | 10.00 | 0.080 | 0.22 | 0.86 | 8.50 | 0.39 | 3.10 |
| Indeno[1,2,3-cd]pyrene | 3.70 | 4.20 | <0.05 | 0.92 | 4.20 | <0.05 | 0.13 | 0.37 | 3.20 | 0.16 | 1.20 |
| Dibenz(a,h)anthracene | 1.10 | 1.20 | <0.05 | 0.23 | 0.96 | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | 0.31 |
| Benzo[ghi]perylene | 4.00 | 5.00 | <0.05 | 1.10 | 4.70 | 0.060 | 0.15 | 0.36 | 3.20 | 0.20 | 1.20 |
| PAH 16 Total | 313.00 | 289.00 | 5.18 | 19.70 | 247.00 | 2.13 | 2.68 | 14.10 | 112.00 | 15.00 | 53.20 |
| Arsenic | 21.00 | 17.00 | 13.00 | 15.00 | 19.00 | 9.90 | 16.00 | 18.00 | 19.00 | 9.30 | 9.50 |
| Boron | 5.00 | 6.70 | 1.40 | 1.0 | 6.90 | 1.10 | 1.50 | 0.90 | 3.50 | 1.30 | 3.20 |
| Cadmium | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.20 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | | |
| Chromium (Total) | 27.00 | 24.00 | 30.00 | 22.00 | 26.00 | 26.00 | 17.00 | 28.00 | 26.00 | 26.00 | 28.00 |
| Copper | 44.00 | 29.00 | 23.00 | 54.00 | 64.00 | 20.00 | 20.00 | 24.00 | 33.00 | 17.00 | 23.00 |
| Lead | 130.00 | 49.00 | 15.00 | 51.00 | 85.00 | 13.00 | 10.00 | 63.00 | 130.00 | 13.00 | 51.00 |
| Mercury (inorganic) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 0.30 | <0.3 | <0.3 |
| Nickel | 27.00 | 20.00 | 31.00 | 24.00 | 22.00 | 27.00 | 12.00 | 15.00 | 25.00 | 25.00 | 19.00 |
| Selenium | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Zinc | 140.00 | 82.00 | 64.00 | 87.00 | 140.00 | 60.00 | 55.00 | 71.00 | 110.00 | 56.00 | 78.00 |
| Benzene | **0.96** | **4.90** | 0.047 | <0.005 | **2.90** | **0.43** | <0.005 | <0.005 | 0.091 | 0.011 | 0.056 |
| Toluene | 5.00 | 12.00 | 0.033 | <0.005 | 7.20 | 0.0080 | <0.005 | <0.005 | 0.16 | <0.005 | 0.011 |
| Ethylbenzene | 7.20 | 8.60 | 0.022 | <0.005 | 6.10 | <0.005 | <0.005 | <0.005 | 0.88 | 0.057 | 0.12 |
| Xylene (p & m-Xylene) | 13.00 | 15.00 | 0.038 | <0.008 | 14.00 | <0.008 | <0.008 | <0.008 | 1.30 | 0.0090 | 0.061 |
| Xylene (o-Xylene) | 6.50 | 7.10 | 0.021 | <0.005 | 5.10 | <0.005 | <0.005 | <0.005 | 0.72 | 0.022 | 0.052 |
| Methyl tert-butyl ether | <0.005 | <0.005 | | | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| TPH (C10 - C40) | | | <10 | 31.00 | | <10 | <10 | | | | |
| Aliphatic C5 - C6 | <0.01 | <0.01 | | | <0.01 | | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C6 - C8 | 0.12 | <0.01 | | | <0.01 | | | <0.01 | <0.01 | <0.01 | 0.054 |
| Aliphatic C8 – C10 | 0.25 | 0.32 | | | <0.01 | | | <0.01 | 0.14 | 0.027 | 0.033 |
| Aliphatic C10 – C12 | 3.60 | 1.60 | | | 8.30 | | | 2.00 | 8.50 | 10.00 | 1.80 |
| Aliphatic C12 – C16 | 35.00 | 29.00 | | | 61.00 | | | 5.00 | 49.00 | 110.00 | 28.00 |
| Aliphatic C16 – C21 | 38.00 | 28.00 | | | 51.00 | | | 10.00 | 50.00 | 140.00 | 38.00 |
| Aliphatic C21 – C35 | 28.00 | 43.00 | | | 50.00 | | | 17.00 | 33.00 | 40.00 | 27.00 |
| Aliphatic C5 – C35 | 110.00 | 100.00 | | | 170.00 | | | 34.00 | 140.00 | 300.00 | 94.00 |
| Aromatic C5 - C7 | 0.96 | 4.90 | | | 2.90 | | | <0.01 | 0.095 | 0.013 | 0.058 |
| Aromatic C7 - C8 | 5.00 | 12.00 | | | 7.00 | | | <0.01 | 0.17 | <0.01 | 0.015 |
| Aromatic C8 – C10 | 29.00 | 34.00 | | | 22.00 | | | <0.02 | 3.50 | 0.15 | 0.34 |
| Aromatic C10 – C12 | 22.00 | 34.00 | | | 26.00 | | | <1 | 3.00 | 4.30 | 6.10 |
| Aromatic C12 – C16 | 110.00 | 220.00 | | | 150.00 | | | 4.50 | 52.00 | 51.00 | 47.00 |
| Aromatic C16 – C21 | 94.00 | 170.00 | | | 160.00 | | | 11.00 | 150.00 | 86.00 | 67.00 |
| Aromatic C21 – C35 | 32.00 | 71.00 | | | 70.00 | | | <10 | 160.00 | 27.00 | 52.00 |
| Aromatic C5 – C35 | 300.00 | 540.00 | | | 440.00 | | | 15.00 | 360.00 | 170.00 | 170.00 |

| Sample Location | MW25-17 | MW25-17 | MW25-22 | MW25-22 | VW25-11A | TP25-10 | TP25-10 | TP25-11 | TP25-12 | TP25-13 | MW25-23B | MW25-23B | MW25-23B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | GH3 | GH3 | GH3 | GH3 | GH3 | GH3 | GH3 | GH3 | GH3 | GH3 | GHA | GHA | GHA |
| Depth (m bgl) | 3.00 | 5.00 | 1.00 | 1.40-4.00 | 0.95 | 2.00 | 2.90 | 1.40 | 1.00 | 1.20 | 10.10 | 2.60 | 4.70 |
| Date Sampled | 13/02/2025 | 13/02/2025 | 17/02/2025 | 18/02/2025 | 12/02/2025 | 06/02/2025 | 06/02/2025 | 07/02/2025 | 07/02/2025 | 07/02/2025 | 18/02/2025 | 18/02/2025 | 18/02/2025 |
| Stratum | MGR | WS&G | MGR | MGR | MGR | WS&G | MGR | MGR | MGR | MGR | WCM | MGR | MGR |
| Stone Content | | <0.1 | 38.20 | 36.90 | <0.1 | <0.1 | <0.1 | 56.50 | 56.70 | <0.1 | <0.1 | <0.1 | <0.1 |
| Moisture Content | | 15.00 | 8.30 | 16.00 | 13.00 | 9.80 | 18.00 | 10.00 | 9.60 | 11.00 | 17.00 | 15.00 | 15.00 |
| Total mass of sample received | | 0.60 | 0.60 | 0.50 | 0.80 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.40 | 0.60 | 0.50 |
| Asbestos in Soil | Not-detected | - | - | Not-detected | - | - | - | - | - | - | - | - | - |
| Asbestos in Soil Screen / Identification Name | | | | | | | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | | | | | | | | |
| Asbestos Quantification Total | | | | | | | | | | | | | |
| pH | | 9.00 | 7.70 | 11.80 | 8.80 | 7.90 | 8.80 | 11.00 | 7.60 | 9.20 | 9.00 | 8.20 | 8.40 |
| Water Soluble SO4 16hr extraction (2:1) | | 76.00 | 4600.00 | 700.00 | 3500.00 | 210.00 | 850.00 | 750.00 | 3600.00 | 3600.00 | 190.00 | 270.00 | 290.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | | 37.80 | 2300.00 | 349.00 | 1730.00 | 105.00 | 427.00 | 376.00 | 1810.00 | 1800.00 | 96.90 | 135.00 | 144.00 |
| Sulphide | | 1.10 | 17.00 | 100.00 | 34.00 | 1.60 | 180.00 | 23.00 | 6.30 | 39.00 | 120.00 | 6.80 | 56.00 |
| Ammonium as NH4 | | <0.5 | 2.70 | 4.30 | 0.80 | <0.5 | 2.00 | 1.40 | 0.90 | 13.00 | 370.00 | <0.5 | 8.20 |
| Organic Matter (automated) | | 0.30 | 1.60 | 0.90 | 1.90 | 0.30 | 1.90 | 1.40 | 1.70 | 2.20 | 1.60 | 0.10 | 0.30 |
| Fraction Organic Carbon (FOC) | | | | | | | | | | | | | |
| Total Organic Carbon (TOC) | | | | | | | | | | | | <0.1 | |
| Loss on Ignition | | 0.60 | 3.20 | 2.40 | 5.00 | 1.0 | 2.00 | 2.80 | 2.90 | 3.40 | 1.70 | 0.60 | 0.40 |
| Cyanide (Total) (as CN) | | <1 | 78.00 | 4.80 | 15.00 | <1 | 1.50 | 7.10 | 83.00 | 180.00 | <1 | 24.00 | 100.00 |
| Complexed cyanide | | <1 | 78.00 | 4.80 | 15.00 | <1 | 1.50 | 7.10 | 83.00 | 180.00 | <1 | 24.00 | 100.00 |
| Easily liberatable cyanide | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloride | | 18.00 | 110.00 | 270.00 | 190.00 | 110.00 | 330.00 | 240.00 | 160.00 | 120.00 | 56.00 | 12.00 | 62.00 |
| Sulphur (Elemental) | | 7.00 | 64.00 | 280.00 | 130.00 | 8.10 | 2000.00 | 27.00 | 100.00 | 190.00 | 110.00 | 7.60 | 630.00 |
| Catechol | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | | <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-Isopropylphenol | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | | <0.1 | <0.1 | 0.29 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | | <0.05 | 0.57 | 2.00 | 0.67 | <0.05 | 1.70 | 1.0 | 1.10 | 2.50 | 1.60 | 0.24 | 2.30 |
| Acenaphthylene | | <0.05 | 0.54 | 0.30 | 1.0 | <0.05 | 0.40 | 0.74 | 0.29 | 2.50 | 0.10 | 0.060 | 4.00 |
| Acenaphthene | | <0.05 | 0.36 | 0.39 | 0.63 | <0.05 | 1.30 | 0.31 | 0.17 | 0.54 | <0.05 | <0.05 | 1.0 |
| Fluorene | | <0.05 | 0.71 | 0.49 | 0.76 | <0.05 | 2.50 | 1.0 | 0.26 | 1.70 | 0.070 | <0.05 | 3.80 |
| Phenanthrene | | <0.05 | 7.90 | 2.30 | 6.40 | <0.05 | 7.80 | 6.90 | 2.20 | 11.00 | 0.15 | 0.42 | 6.20 |
| Anthracene | | <0.05 | 2.40 | 0.44 | 2.60 | <0.05 | 2.60 | 1.90 | 0.65 | 4.00 | <0.05 | 0.090 | 1.50 |
| Fluoranthene | | <0.05 | 13.00 | 1.80 | 12.00 | <0.05 | 10.00 | 11.00 | 5.70 | 21.00 | 0.080 | 0.39 | 1.70 |
| Pyrene | | <0.05 | 11.00 | 1.30 | 11.00 | <0.05 | 8.30 | 9.10 | 5.00 | 20.00 | <0.05 | 0.32 | 1.30 |
| Benzo[a]anthracene | | <0.05 | 5.50 | 0.62 | 6.00 | <0.05 | 3.30 | 4.50 | 2.90 | 11.00 | <0.05 | 0.15 | 0.41 |
| Chrysene | | <0.05 | 5.30 | 0.63 | 5.60 | <0.05 | 3.50 | 4.50 | 2.90 | 11.00 | <0.05 | 0.19 | 0.36 |
| Benzo[b]fluoranthene | | <0.05 | 6.50 | 0.62 | 7.70 | <0.05 | 4.00 | 5.30 | 4.40 | 17.00 | <0.05 | 0.15 | 0.42 |
| Benzo[k]fluoranthene | | <0.05 | 2.10 | 0.30 | 3.80 | <0.05 | 1.70 | 2.20 | 1.80 | 6.10 | <0.05 | <0.05 | 0.13 |
| Benzo[a]pyrene | | <0.05 | 5.40 | 0.49 | 7.90 | <0.05 | 3.30 | 4.70 | 3.20 | 14.00 | <0.05 | 0.10 | 0.38 |
| Indeno[1,2,3-cd]pyrene | | <0.05 | 2.50 | 0.26 | 3.90 | <0.05 | 1.40 | 2.20 | 1.90 | 7.90 | <0.05 | 0.070 | 0.20 |
| Dibenz(a,h)anthracene | | <0.05 | 0.63 | <0.05 | 0.81 | <0.05 | 0.30 | 0.41 | 0.29 | 1.40 | <0.05 | <0.05 | <0.05 |
| Benzo[ghi]perylene | | <0.05 | 2.50 | 0.29 | 4.10 | <0.05 | 1.40 | 2.40 | 2.10 | 8.40 | <0.05 | <0.05 | 0.26 |
| PAH 16 Total | | <0.8 | 66.30 | 12.10 | 74.90 | <0.8 | 53.30 | 57.60 | 34.80 | 140.00 | 2.00 | 2.18 | 23.90 |
| Arsenic | | 3.60 | 20.00 | 9.80 | 37.00 | 4.20 | 11.00 | 21.00 | 23.00 | 21.00 | 9.70 | 7.60 | 2.30 |
| Boron | | 0.70 | 1.80 | 1.80 | 2.20 | 0.80 | 1.50 | 2.30 | 1.30 | 3.00 | 1.40 | 0.60 | 0.60 |
| Cadmium | | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.30 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chromium (VI) | | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | | | | |
| Chromium (Total) | | 11.00 | 24.00 | 20.00 | 35.00 | 12.00 | 690.00 | 58.00 | 53.00 | 41.00 | 15.00 | 11.00 | 6.60 |
| Copper | | 9.00 | 39.00 | 19.00 | 66.00 | 12.00 | 27.00 | 48.00 | 79.00 | 98.00 | 14.00 | 10.00 | 9.10 |
| Lead | | 9.30 | 130.00 | 77.00 | 110.00 | 18.00 | 380.00 | 120.00 | 89.00 | 240.00 | 8.90 | 7.40 | 5.70 |
| Mercury (inorganic) | | <0.3 | <0.3 | <0.3 | 0.30 | <0.3 | <0.3 | <0.3 | 1.0 | 4.90 | <0.3 | <0.3 | <0.3 |
| Nickel | | 12.00 | 19.00 | 11.00 | 28.00 | 12.00 | 27.00 | 17.00 | 35.00 | 27.00 | 16.00 | 7.90 | 6.50 |
| Selenium | | <1 | 1.10 | <1 | 4.10 | <1 | <1 | 1.80 | 2.60 | 1.80 | <1 | <1 | <1 |
| Zinc | | 33.00 | 78.00 | 120.00 | 110.00 | 41.00 | 250.00 | 150.00 | 190.00 | 99.00 | 47.00 | 43.00 | 23.00 |
| Benzene | | <0.005 | 0.023 | 0.048 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | **3.60** | <0.005 | <0.005 |
| Toluene | | <0.005 | 0.027 | 0.036 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.32 | <0.005 | 0.24 |
| Ethylbenzene | | <0.005 | 0.0080 | 0.014 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.29 | <0.005 | 0.095 |
| Xylene (p & m-Xylene) | | <0.008 | 0.010 | 0.038 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | 0.65 | <0.008 | 0.36 |
| Xylene (o-Xylene) | | <0.005 | 0.0050 | 0.023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.28 | <0.005 | 0.30 |
| Methyl tert-butyl ether | | | <0.005 | <0.005 | | | <0.005 | | <0.005 | | | | <0.005 |
| TPH (C10 - C40) | | <10 | | | | <10 | | 660.00 | | 330.00 | <10 | <10 | |
| Aliphatic C5 - C6 | | | <0.01 | <0.01 | <0.01 | | <0.01 | | <0.01 | | | | <0.01 |
| Aliphatic C6 - C8 | | | <0.01 | <0.01 | <0.01 | | 0.20 | | <0.01 | | | | <0.01 |
| Aliphatic C8 – C10 | | | <0.01 | <0.01 | <0.01 | | 0.55 | | <0.01 | | | | 1.80 |
| Aliphatic C10 – C12 | | | <1 | 14.00 | 1.20 | | 9.50 | | 1.0 | | | | 24.00 |
| Aliphatic C12 – C16 | | | <2 | 220.00 | 3.60 | | 85.00 | | 6.10 | | | | 99.00 |
| Aliphatic C16 – C21 | | | <8 | 280.00 | <8 | | 330.00 | | 15.00 | | | | 25.00 |
| Aliphatic C21 – C35 | | | <8 | 120.00 | 11.00 | | 840.00 | | 43.00 | | | | <8 |
| Aliphatic C5 – C35 | | | <10 | 630.00 | 16.00 | | 1300.00 | | 65.00 | | | | 150.00 |
| Aromatic C5 - C7 | | | 0.025 | 0.053 | <0.01 | | <0.01 | | <0.01 | | | | 0.023 |
| Aromatic C7 - C8 | | | 0.027 | 0.037 | <0.01 | | <0.01 | | <0.01 | | | | 0.25 |
| Aromatic C8 – C10 | | | 0.028 | 0.15 | <0.02 | | <0.02 | | <0.02 | | | | 1.30 |
| Aromatic C10 – C12 | | | <1 | 5.20 | <1 | | 7.80 | | <1 | | | | 15.00 |
| Aromatic C12 – C16 | | | 5.20 | 100.00 | 3.50 | | 48.00 | | 2.80 | | | | 120.00 |
| Aromatic C16 – C21 | | | 39.00 | 160.00 | 20.00 | | 300.00 | | 21.00 | | | | 48.00 |
| Aromatic C21 – C35 | | | 38.00 | 44.00 | 27.00 | | 350.00 | | 30.00 | | | | 21.00 |
| Aromatic C5 – C35 | | | 82.00 | 310.00 | 51.00 | | 700.00 | | 53.00 | | | | 210.00 |

VOC and SVOC results (only the sample columns with results in these rows are shown; all other sample columns are blank for these rows):

| Sample Location (Depth) | MW25-36 (2.90) | MW25-13A (2.70) | MW25-33 (4.00) | MW25-10 (2.50) | MW25-30B (2.20) | VW25-14 (1.00) | MW25-23B (4.70) |
|---|---|---|---|---|---|---|---|
| Chloromethane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloroethane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Bromomethane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Vinyl chloride (Chloroethene) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Trichlorofluoromethane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,1-Dichloroethene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Trans 1,2 Dichloroethene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,1-Dichloroethane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2,2-Dichloropropane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Trichloromethane (Chloroform) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,1,1-Trichloroethane (TCA) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,2-Dichloroethane | <0.007 | <0.007 | <0.007 | <0.007 | <0.007 | <0.007 | <0.007 |
| 1,1-Dichloropropene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Cis 1,2 Dichloroethene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Carbon tetrachloride (Tetrachloromethane) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,2-Dichloropropane | <0.006 | <0.006 | <0.006 | <0.006 | <0.006 | <0.006 | <0.006 |
| Trichloroethylene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Dibromomethane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Bromodichloromethane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Cis-1,3-dichloropropene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Trans-1,3-dichloropropene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 1,1,2 Trichloroethane | <0.006 | <0.006 | <0.006 | <0.006 | <0.006 | <0.006 | <0.006 |
| 1,3-Dichloropropane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Dibromochloromethane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Tetrachloroethylene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,2-Dibromoethane | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| ChloroBenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Styrene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Bromoform | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Iso-propylbenzene | <0.005 | 0.19 | 0.45 | 0.13 | 0.075 | <0.005 | <0.005 |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Bromobenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| n-Propylbenzene | <0.005 | 0.55 | 0.60 | 0.39 | 0.19 | <0.005 | <0.005 |
| 2-Chlorotoluene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 4-Chlorotoluene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,3,5-Trimethylbenzene | <0.005 | 2.90 | 1.50 | 2.80 | 1.60 | <0.005 | <0.005 |
| tert-Butylbenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,2,4-Trimethylbenzene | 0.028 | **7.40** | **6.40** | **7.50** | **4.10** | <0.005 | **1.60** |
| sec-Butylbenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,3-dichlorobenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| p-Isopropyltoluene | <0.005 | 0.24 | 0.28 | 0.13 | 0.055 | <0.005 | <0.005 |
| 1,4-dichlorobenzene | | | | | | | |
| 1,2-dichlorobenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Butylbenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,2-Dibromo-3-chloropropane | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 |
| 1,2,4-trichlorobenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Hexachlorobutadiene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,2,3-trichlorobenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Aniline | | | <0.1 | | | | 0.20 |
| Phenol | | | <0.2 | | | | <0.2 |
| 2-chlorophenol | | | <0.1 | | | | <0.1 |
| Bis(2-chloroethyl)ether | | | <0.2 | | | | <0.2 |
| 1,3-dichlorobenzene | | | <0.2 | | | | <0.2 |
| 1,2-dichlorobenzene | | | <0.1 | | | | <0.1 |
| 1,4-dichlorobenzene | | | <0.2 | | | | <0.2 |
| Bis(2-chloroisopropyl)ether | | | <0.1 | | | | <0.1 |
| 2-Methylphenol | | | <0.3 | | | | <0.3 |
| Hexachloroethane | | | <0.05 | | | | <0.05 |
| Nitrobenzene | | | <0.3 | | | | <0.3 |
| 4-Methylphenol | | | <0.2 | | | | <0.2 |
| Isophorone | | | <0.2 | | | | <0.2 |
| 2-Nitrophenol | | | <0.3 | | | | <0.3 |
| 2,4-Dimethylphenol | | | <0.3 | | | | <0.3 |
| Bis(2-chloroethoxy)methane | | | <0.3 | | | | <0.3 |
| 1,2,4-trichlorobenzene | | | <0.3 | | | | <0.3 |
| 2,4-Dichlorophenol | | | <0.3 | | | | <0.3 |
| 4-Chloroaniline | | | <0.1 | | | | <0.1 |
| Hexachlorobutadiene | | | <0.1 | | | | <0.1 |
| 4-Chloro-3-methylphenol | | | <0.1 | | | | <0.1 |
| 2,4,6-Trichlorophenol | | | <0.1 | | | | <0.1 |
| 2,4,5-Trichlorophenol | | | <0.2 | | | | <0.2 |
| 2-Methylnaphthalene | | | 44.00 | | | | 0.20 |
| 2-Chloronaphthalene | | | <0.1 | | | | <0.1 |
| Dimethylphthalate | | | <0.1 | | | | <0.1 |
| 2,6-Dinitrotoluene | | | <0.1 | | | | <0.1 |
| 2,4-Dinitrotoluene | | | <0.2 | | | | <0.2 |
| Dibenzofuran | | | 4.10 | | | | 2.50 |
| 4-Chlorophenyl phenyl ether | | | <0.3 | | | | <0.3 |
| Diethyl phthalate | | | <0.2 | | | | <0.2 |
| 4-Nitroaniline | | | <0.2 | | | | <0.2 |
| Azobenzene | | | <0.3 | | | | <0.3 |
| Bromophenyl phenyl ether | | | <0.2 | | | | <0.2 |
| Hexachlorobenzene | | | <0.3 | | | | <0.3 |
| Carbazole | | | <0.3 | | | | <0.3 |
| Dibutyl phthalate | | | <0.2 | | | | <0.2 |
| Anthraquinone | | | 0.70 | | | | <0.3 |
| Butyl benzyl phthalate | | | <0.3 | | | | <0.3 |

MGR = Made Ground
BC = Boulder Clay
WS&G = Wolston Sand and Gravel
WCM = Wolston Clay Member

# Table B: Soil Analytical Data (>0.8 m bgl) (volatiles) - Area B

NUMBER OF SAMPLES: 123

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Residential (with veg uptake C4SL) | No. Analyses | CRITERIA 1 Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|
| Stone Content | % | 0.1 | | 122 | | <0.1 | <8.1 | 68.2 | TP25-21 |
| Moisture Content | % | 0.01 | | 122 | | <0.01 | <15.7 | 41 | MW25-04A |
| Total mass of sample received | kg | 0.1 | | 122 | | 0.1 | 0.6 | 0.8 | TP25-19 |
| Asbestos in Soil | Detect | N/A | | 9 | | 0 | 0 | <0 | n/a |
| Asbestos in Soil Screen / Identification Name | Type | N/A | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | | | | | | | |
| Asbestos Quantification Total | % | 0.001 | | | | | | | |
| pH | pH Units | N/A | | 122 | | 4.2 | 8.3 | 11.8 | MW25-22 |
| Water Soluble SO4 16hr extraction (2:1) | mg.kg$^{-1}$ | 2.5 | | 122 | | 21 | 1069.4 | 6900 | TP25-20 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg.L$^{-1}$ | 1.25 | | 122 | | 10.6 | 534.55 | 3460 | TP25-20 |
| Sulphide | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <59.7 | 1000 | MW25-25 |
| Ammonium as NH4 | mg.kg$^{-1}$ | 0.5 | | 122 | | <0.5 | <41.3 | 430 | MW25-16A |
| Organic Matter (automated) | % | 0.1 | | 122 | | <0.1 | <1.8 | 18 | MW25-04A |
| Fraction Organic Carbon (FOC) | N/A | 0.001 | | 22 | | <0.001 | <0.008 | 0.021 | MW25-09C |
| Total Organic Carbon (TOC) | % | 0.1 | | 10 | | <0.1 | <1.2 | 2.7 | VW25-18 |
| Loss on Ignition | % | 0.2 | | 122 | | <0.2 | <2.8 | 23 | MW25-04A |
| Cyanide (Total) (as CN) | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <37.7 | 1200 | MW25-14 |
| Complexed cyanide | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <37.4 | 1200 | MW25-14 |
| Easily liberatable cyanide | mg.kg$^{-1}$ | 1 | 1.44 | 122 | 8 | <1 | <1.3 | 12 | TP25-20 |
| Thiocyanate | mg.kg$^{-1}$ | 5 | | 122 | | <5 | <5.6 | 57 | TP25-20 |
| Chloride | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <90.3 | 1100 | TP25-20 |
| Sulphur (Elemental) | mg.kg$^{-1}$ | 5 | | 122 | | <5 | <334 | 5100 | TP25-20 |
| Catechol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | 0.39 | MW25-27 |
| Resorcinol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | <0.1 | n/a |
| Cresols (Total) | mg.kg$^{-1}$ | 0.3 | | 122 | | <0.3 | <0.8 | 54 | MW25-25 |
| Naphthols | mg.kg$^{-1}$ | 0.2 | | 122 | | <0.2 | <0.3 | 16 | MW25-25 |
| 2-Isopropylphenol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | <0.1 | n/a |
| Phenol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | 0.95 | MW25-25 |
| Trimethylphenol (2,3,5-) | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | <0.1 | n/a |
| Phenols (Total) | mg.kg$^{-1}$ | 1.4 | | 122 | | <1.4 | <3.7 | 240 | MW25-25 |
| Xylenols and Ethylphenols (Total) | mg.kg$^{-1}$ | 0.4 | | 122 | | <0.4 | <2.1 | 170 | MW25-25 |
| Naphthalene | mg.kg$^{-1}$ | 0.05 | 15 | 122 | 22 | <0.05 | <48.73 | 2400 | MW25-25 |
| Acenaphthylene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <10.78 | 760 | MW25-25 |
| Acenaphthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.22 | 140 | MW25-25 |
| Fluorene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <9.72 | 650 | MW25-25 |
| Phenanthrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <30.02 | 1900 | MW25-25 |
| Anthracene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <9.4 | 650 | MW25-25 |
| Fluoranthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <20.66 | 1200 | MW25-25 |
| Pyrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <17.18 | 940 | MW25-25 |
| Benzo[a]anthracene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.93 | 450 | MW25-25 |
| Chrysene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.06 | 390 | MW25-25 |
| Benzo[b]fluoranthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.69 | 410 | MW25-25 |
| Benzo[k]fluoranthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.2 | 170 | MW25-25 |
| Benzo[a]pyrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.27 | 390 | MW25-25 |
| Indeno[1,2,3-cd]pyrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.18 | 150 | MW25-25 |
| Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <0.72 | 35 | MW25-25 |
| Benzo[ghi]perylene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.36 | 160 | MW25-25 |
| PAH 16 Total | mg.kg$^{-1}$ | 0.8 | | 122 | | <0.8 | <190 | 10800 | MW25-25 |
| Arsenic | mg.kg$^{-1}$ | 1 | | 122 | | 1.1 | 14.4 | 130 | MW25-04A |
| Boron | mg.kg$^{-1}$ | 0.2 | | 122 | | 0.4 | 1.8 | 12 | TP25-18 |
| Cadmium | mg.kg$^{-1}$ | 0.2 | | 122 | | <0.2 | <0.2 | 1.4 | TP25-22 |
| Chromium (VI) | mg.kg$^{-1}$ | 1.2 | | 122 | | <1.2 | <1.2 | 1.6 | MW25-31A |
| Chromium (III) | mg.kg$^{-1}$ | | | | | | | | |
| Chromium (Total) | mg.kg$^{-1}$ | 1 | | 122 | | 1.9 | 26.5 | 690 | TP25-10 |
| Copper | mg.kg$^{-1}$ | 1 | | 122 | | 3.7 | 29.2 | 110 | TP25-19 |
| Lead | mg.kg$^{-1}$ | 1 | | 122 | | 1.7 | 104.8 | 5400 | MW25-19A |
| Mercury (inorganic) | mg.kg$^{-1}$ | 0.3 | | 122 | | <0.3 | <1.1 | 55 | MW25-33 |
| Nickel | mg.kg$^{-1}$ | 1 | | 122 | | 2.2 | 20 | 68 | MW25-36 |
| Selenium | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <1.4 | 24 | MW25-04A |
| Zinc | mg.kg$^{-1}$ | 1 | | 122 | | 9.6 | 77 | 610 | MW25-35 |
| Benzene | mg.kg$^{-1}$ | 0.005 | 0.202927877 | 107 | 25 | <0.005 | <1.608 | 46 | MW25-25 |
| Toluene | mg.kg$^{-1}$ | 0.005 | 130 | 107 | 0 | <0.005 | <1.854 | 42 | MW25-25 |
| Ethylbenzene | mg.kg$^{-1}$ | 0.005 | 47 | 107 | 0 | <0.005 | <1.736 | 37 | MW25-20 |
| Xylene (p & m-Xylene) | mg.kg$^{-1}$ | 0.008 | | 107 | | <0.008 | <3.699 | 100 | MW25-20 |
| Xylene (o-Xylene) | mg.kg$^{-1}$ | 0.005 | 60 | 107 | 1 | <0.005 | <2.377 | 67 | MW25-20 |
| Methyl tert-butyl ether | mg.kg$^{-1}$ | 0.005 | | 49 | | <0.005 | <0.005 | <0.005 | n/a |
| TPH (C10 - C40) | mg.kg$^{-1}$ | 10 | | 74 | | <10 | <83.4 | 1,200 | MW25-35 |
| Aliphatic C5 - C6 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <0.03 | 0 | VW25-18 |
| Aliphatic C6 - C8 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <0.75 | 28 | MW25-20 |
| Aliphatic C8 – C10 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <4.16 | 120 | MW25-20 |
| Aliphatic C10 – C12 | mg.kg$^{-1}$ | 1 | | 53 | | <1 | <18.1 | 220 | MW25-20 |
| Aliphatic C12 – C16 | mg.kg$^{-1}$ | 2 | | 53 | | <2 | <78.7 | 960 | MW25-20 |
| Aliphatic C16 – C21 | mg.kg$^{-1}$ | 8 | | 53 | | <8 | <87.7 | 1000 | VW25-18 |
| Aliphatic C21 – C35 | mg.kg$^{-1}$ | 8 | | 53 | | <8 | <87.2 | 840 | TP25-10 |
| Aliphatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <274.9 | 2100 | VW25-18 |
| Aromatic C5 - C7 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <2.88 | 46 | MW25-25 |
| Aromatic C7 - C8 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <3.77 | 42 | MW25-25 |
| Aromatic C8 – C10 | mg.kg$^{-1}$ | 0.02 | | 53 | | <0.02 | <18.01 | 250 | MW25-20 |
| Aromatic C10 – C12 | mg.kg$^{-1}$ | 1 | | 53 | | <1 | <101.9 | 1800 | MW25-25 |
| Aromatic C12 – C16 | mg.kg$^{-1}$ | 2 | | 53 | | <2 | <212.4 | 3500 | MW25-25 |
| Aromatic C16 – C21 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <321.5 | 6000 | MW25-25 |
| Aromatic C21 – C35 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <223 | 4200 | MW25-25 |
| Aromatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <878.3 | 16000 | MW25-25 |
| Chloromethane | mg.kg$^{-1}$ | 0.005 | 0.0119 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Chloroethane | mg.kg$^{-1}$ | 0.005 | 11.791 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Bromomethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Vinyl chloride (Chloroethene) | mg.kg$^{-1}$ | 0.005 | 0.0064 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Trichlorofluoromethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,1-Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.326 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Trans 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.9 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1-Dichloroethane | mg.kg$^{-1}$ | 0.005 | 3.47 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 2,2-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Trichloromethane (Chloroform) | mg.kg$^{-1}$ | 0.005 | 0.91 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1,1-Trichloroethane (TCA) | mg.kg$^{-1}$ | 0.005 | 8.8 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-Dichloroethane | mg.kg$^{-1}$ | 0.007 | 0.11 | 16 | 0 | <0.007 | <0.007 | <0.007 | n/a |
| 1,1-Dichloropropene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Cis 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.46 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Carbon tetrachloride (Tetrachloromethane) | mg.kg$^{-1}$ | 0.005 | 0.026 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-Dichloropropane | mg.kg$^{-1}$ | 0.006 | 0.0338 | 16 | 0 | <0.006 | <0.006 | <0.006 | n/a |
| Trichloroethylene | mg.kg$^{-1}$ | 0.01 | 0.0093 | 16 | 0 | <0.01 | <0.01 | <0.01 | n/a |
| Dibromomethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Bromodichloromethane | mg.kg$^{-1}$ | 0.005 | 0.0239 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Cis-1,3-dichloropropene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Trans-1,3-dichloropropene | mg.kg$^{-1}$ | 0.01 | | 16 | | <0.01 | <0.01 | <0.01 | n/a |
| 1,1,2 Trichloroethane | mg.kg$^{-1}$ | 0.006 | 0.923 | 16 | 0 | <0.006 | <0.006 | <0.006 | n/a |
| 1,3-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Dibromochloromethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| Tetrachloroethylene | mg.kg$^{-1}$ | 0.005 | 0.31 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-Dibromoethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| ChloroBenzene | mg.kg$^{-1}$ | 0.005 | 0.46 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.2 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Styrene | mg.kg$^{-1}$ | 0.005 | 19.448 | 16 | 1 | <0.005 | <1.868 | 29 | MW25-25 |
| Bromoform | mg.kg$^{-1}$ | 0.005 | 4.548 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Iso-propylbenzene | mg.kg$^{-1}$ | 0.005 | 15.953 | 16 | 0 | <0.005 | <0.3 | 1.1 | VW25-18 |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.6 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Bromobenzene | mg.kg$^{-1}$ | 0.005 | 1.258 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| n-Propylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.638 | 2.4 | MW25-14 |
| 2-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 4-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,3,5-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <2.609 | 7.6 | TP25-20 |
| tert-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | 0.517 | 16 | 12 | <0.005 | <7.671 | 27 | MW25-14 |
| sec-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 0.4 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| p-Isopropyltoluene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.242 | 1.3 | MW25-14 |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 45.847 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 23.08 | 13 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.076 | 0.79 | VW25-18 |
| 1,2-Dibromo-3-chloropropane | mg.kg$^{-1}$ | 0.008 | | 16 | | <0.008 | <0.008 | <0.008 | n/a |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 2.58 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a |
| 1,2,3-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 1.477 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a |
| Aniline | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.2 | 0.4 | VW25-18 |
| Phenol | mg.kg$^{-1}$ | 0.2 | 280 | 7 | 0 | <0.2 | <0.5 | 2.4 | MW25-25 |
| 2-chlorophenol | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| Bis(2-chloroethyl)ether | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 0.4 | 7 | 0 | <0.2 | <0.2 | <0.2 | n/a |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.1 | 23.08 | 7 | 0 | <0.1 | <0.1 | <0.1 | n/a |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 45.847 | 7 | 0 | <0.2 | <0.2 | <0.2 | n/a |
| Bis(2-chloroisopropyl)ether | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| 2-Methylphenol | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <8.1 | 55 | MW25-25 |
| Hexachloroethane | mg.kg$^{-1}$ | 0.05 | 0.287 | 7 | 0 | <0.05 | <0.05 | <0.05 | n/a |
| Nitrobenzene | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| 4-Methylphenol | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <13.2 | 91 | MW25-25 |
| Isophorone | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| 2-Nitrophenol | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| 2,4-Dimethylphenol | mg.kg$^{-1}$ | 0.3 | 34.117 | 7 | 1 | <0.3 | <31.7 | 220 | MW25-25 |
| Bis(2-chloroethoxy)methane | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.3 | 2.58 | 7 | 0 | <0.3 | <0.3 | <0.3 | n/a |
| 2,4-Dichlorophenol | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| 4-Chloroaniline | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| 4-Chloro-3-methylphenol | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| 2,4,6-Trichlorophenol | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| 2,4,5-Trichlorophenol | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| 2-Methylnaphthalene | mg.kg$^{-1}$ | 0.1 | | 7 | | 0.2 | 103.9 | 620 | MW25-25 |
| 2-Chloronaphthalene | mg.kg$^{-1}$ | 0.1 | 5.334 | 7 | 0 | <0.1 | <0.1 | <0.1 | n/a |
| Dimethylphthalate | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a |
| 2,6-Dinitrotoluene | mg.kg$^{-1}$ | 0.1 | 1.469 | 7 | 0 | <0.1 | <0.1 | <0.1 | n/a |
| 2,4-Dinitrotoluene | mg.kg$^{-1}$ | 0.2 | 2.774 | 7 | 0 | <0.2 | <0.2 | <0.2 | n/a |
| Dibenzofuran | mg.kg$^{-1}$ | 0.2 | | 7 | | 2.5 | 82.3 | 550 | MW25-25 |
| 4-Chlorophenyl phenyl ether | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| Diethyl phthalate | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| 4-Nitroaniline | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| Azobenzene | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| Bromophenyl phenyl ether | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| Hexachlorobenzene | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a |
| Carbazole | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <47.3 | 320 | MW25-25 |
| Dibutyl phthalate | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a |
| Anthraquinone | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <2.9 | 14 | MW25-25 |
| Butyl benzyl phthalate | mg.kg$^{-1}$ | 0.3 | 2615.035 | 7 | 0 | <0.3 | <0.5 | 1.8 | MW25-14 |
| PCB Congener 28 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 52 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 101 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 118 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 138 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 153 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| PCB Congener 180 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a |
| Total PCBs | mg.kg$^{-1}$ | 0.007 | | 1 | | <0.007 | <0.007 | <0.007 | n/a |

| Sample Location | MW25-23B | MW25-23-DUP | TP25-24 | MW25-25 | MW25-25 | MW25-25 | MW25-25-DUP | TP25-25 | TP25-25 |
|---|---|---|---|---|---|---|---|---|---|
| Former Feature | GHA | GHA | GHA | GHB | GHB | GHB | GHB | GHB | GHB |
| Depth (m bgl) | 7.50 | 2.60 | 1.30 | 2.40 | 5.80 | 6.50 | 6.50 | 1.20 | 1.40 |
| Date Sampled | 18/02/2025 | 18/02/2025 | 14/02/2025 | 19/02/2025 | 19/02/2025 | 19/02/2025 | 19/02/2025 | 14/02/2025 | 14/02/2025 |
| Stratum | MGR | MGR | MGR | MGR | WCM | WCM | WCM | MGR | MGR |
| Stone Content | <0.1 | <0.1 | 62.20 | <0.1 | 7.00 | <0.1 | <0.1 | <0.1 | 63.00 |
| Moisture Content | <0.01 | 16.00 | 6.60 | 4.60 | 13.00 | 18.00 | 18.00 | 19.00 | 6.50 |
| Total mass of sample received | 0.60 | 0.50 | 0.60 | 0.50 | 0.50 | 0.40 | 0.50 | 0.60 | 0.60 |
| Asbestos in Soil | - | - | - | Not-detected | - | - | - | - | - |
| Asbestos in Soil Screen / Identification Name | | | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | | | | |
| Asbestos Quantification Total | | | | | | | | | |
| pH | U/S | 8.30 | 9.90 | 6.90 | 8.60 | 7.90 | 8.00 | 8.10 | 8.40 |
| Water Soluble SO4 16hr extraction (2:1) | U/S [*U/S f] | 210.00 | 99.00 | 23.00 | 92.00 | 1400.00 | 1200.00 | 480.00 | 95.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | U/S [*U/S f] | 105.00 | 49.40 | 11.30 | 45.80 | 697.00 | 596.00 | 239.00 | 47.70 |
| Sulphide | U/S [*U/S] | 1.50 | <1 | 1.70 | 5.10 | 1000.00 | 970.00 | 3.30 | <1 |
| Ammonium as NH4 | 110.00 | <0.5 | <0.5 | <0.5 | 220.00 | 47.00 | 48.00 | 0.50 | <0.5 |
| Organic Matter (automated) | 9.30 | <0.1 | 0.10 | <0.1 | 5.50 | 2.30 | 2.60 | 1.60 | 1.30 |
| Fraction Organic Carbon (FOC) | | | | | | | | | |
| Total Organic Carbon (TOC) | | | | <0.1 | | | | | |
| Loss on Ignition | 4.00 | 0.70 | 0.70 | 0.30 | 6.40 | 2.50 | 3.00 | 4.10 | 2.40 |
| Cyanide (Total) (as CN) | U/S | 1.2 [*U/S f] | <1 | <1 | <1 | <1 | <1 | 5.40 | <1 |
| Complexed cyanide | U/S | 1.20 | <1 | <1 | <1 | <1 | <1 | 5.40 | <1 |
| Easily liberatable cyanide | U/S | <1.0 [*U/S f] | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | U/S [*U/S] | <5 | <5 | <5 | 5.40 | <5 | <5 | <5 | <5 |
| Chloride | U/S [*U/S] | 12.00 | 15.00 | <1 | 22.00 | 190.00 | 240.00 | 32.00 | 28.00 |
| Sulphur (Elemental) | U/S [*U/S] | 11.00 | <5 | <5 | <5 | 2500.00 | 2400.00 | 170.00 | 7.70 |
| Catechol | U/S [*U/S] | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | U/S [*U/S] | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | U/S [*U/S] | <0.3 | <0.3 | <0.3 | 54.00 | 3.10 | 3.00 | <0.3 | <0.3 |
| Naphthols | U/S [*U/S] | <0.2 | <0.2 | <0.2 | 16.00 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | U/S [*U/S] | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | U/S [*U/S] | <0.1 | <0.1 | <0.1 | <0.1 | 0.95 | 0.86 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | U/S [*U/S] | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | U/S [*U/S] | <1.4 | <1.4 | <1.4 | 240.00 | 7.10 | 6.30 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | U/S [*U/S] | <0.4 | <0.4 | <0.4 | 170.00 | 3.10 | 2.40 | <0.4 | <0.4 |
| Naphthalene | U/S [*U/S f] | 0.68 | <0.05 | <0.05 | **2400.00** | **27.00** | **31.00** | 4.00 | <0.05 |
| Acenaphthylene | U/S [*U/S f] | <0.05 | 0.080 | <0.05 | 760.00 | 0.21 | 0.38 | 0.37 | 0.080 |
| Acenaphthene | U/S [*U/S f] | <0.05 | <0.05 | <0.05 | 140.00 | <0.05 | 0.17 | 0.17 | <0.05 |
| Fluorene | U/S [*U/S f] | <0.05 | <0.05 | <0.05 | 650.00 | 0.17 | 0.40 | 0.66 | <0.05 |
| Phenanthrene | U/S [*U/S f] | 0.11 | 0.15 | <0.05 | 1900.00 | 0.60 | 0.44 | 2.60 | 0.20 |
| Anthracene | U/S [*U/S f] | <0.05 | <0.05 | <0.05 | 650.00 | 0.15 | 0.080 | 1.10 | 0.060 |
| Fluoranthene | U/S [*U/S f] | 0.080 | 0.42 | <0.05 | 1200.00 | 0.42 | 0.10 | 3.10 | 0.36 |
| Pyrene | U/S [*U/S f] | 0.060 | 0.43 | <0.05 | 940.00 | 0.33 | 0.11 | 3.10 | 0.32 |
| Benzo[a]anthracene | U/S [*U/S f] | <0.05 | 0.23 | <0.05 | 450.00 | 0.16 | <0.05 | 2.00 | 0.18 |
| Chrysene | U/S [*U/S f] | <0.05 | 0.23 | <0.05 | 390.00 | 0.15 | <0.05 | 1.80 | 0.16 |
| Benzo[b]fluoranthene | U/S [*U/S f] | <0.05 | 0.38 | <0.05 | 410.00 | 0.18 | <0.05 | 1.90 | 0.19 |
| Benzo[k]fluoranthene | U/S [*U/S f] | <0.05 | 0.10 | <0.05 | 170.00 | <0.05 | <0.05 | 0.52 | 0.11 |
| Benzo[a]pyrene | U/S [*U/S f] | <0.05 | 0.29 | <0.05 | 390.00 | 0.17 | <0.05 | 1.60 | 0.17 |
| Indeno[1,2,3-cd]pyrene | U/S [*U/S f] | <0.05 | 0.20 | <0.05 | 150.00 | 0.080 | <0.05 | 0.57 | 0.090 |
| Dibenz(a,h)anthracene | U/S [*U/S f] | <0.05 | <0.05 | <0.05 | 35.00 | <0.05 | <0.05 | 0.19 | <0.05 |
| Benzo[ghi]perylene | U/S [*U/S f] | <0.05 | 0.26 | <0.05 | 160.00 | 0.10 | <0.05 | 0.73 | 0.10 |
| PAH 16 Total | U/S | 0.93 | 2.78 | <0.8 | 10800.00 | 29.60 | 33.10 | 24.40 | 2.02 |
| Arsenic | U/S [*U/S f] | 9.60 | 8.50 | 4.50 | 7.80 | 8.80 | 8.30 | 13.00 | 4.10 |
| Boron | U/S [*U/S f] | 0.80 | 0.80 | 0.40 | 1.50 | 1.10 | 0.90 | 2.20 | 0.80 |
| Cadmium | U/S [*U/S f] | <0.2 | <0.2 | 0.20 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chromium (VI) | U/S [*U/S f] | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | |
| Chromium (Total) | U/S [*U/S f] | 11.00 | 10.00 | 10.00 | 20.00 | 16.00 | 16.00 | 30.00 | 14.00 |
| Copper | U/S [*U/S f] | 8.80 | 20.00 | 7.80 | 15.00 | 18.00 | 17.00 | 23.00 | 31.00 |
| Lead | U/S [*U/S f] | 7.80 | 7.90 | 4.90 | 9.60 | 11.00 | 10.00 | 28.00 | 14.00 |
| Mercury (inorganic) | U/S [*U/S f] | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel | U/S [*U/S f] | 8.40 | 7.90 | 6.80 | 21.00 | 17.00 | 17.00 | 27.00 | 11.00 |
| Selenium | U/S [*U/S f] | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Zinc | U/S [*U/S f] | 38.00 | 46.00 | 21.00 | 56.00 | 46.00 | 51.00 | 72.00 | 71.00 |
| Benzene | **33.00** | <0.005 | <0.005 | <0.005 | **46.00** | **0.87** | **0.65** | <0.005 | <0.005 |
| Toluene | 36.00 | <0.005 | <0.005 | <0.005 | 42.00 | 0.42 | 0.18 | <0.005 | <0.005 |
| Ethylbenzene | 25.00 | <0.005 | <0.005 | <0.005 | 5.10 | 8.90 | 3.10 | <0.005 | <0.005 |
| Xylene (p & m-Xylene) | 43.00 | <0.008 | <0.008 | <0.008 | 38.00 | 8.80 | 2.90 | <0.008 | <0.008 |
| Xylene (o-Xylene) | 41.00 | <0.005 | <0.005 | <0.005 | 22.00 | 5.00 | 1.40 | <0.005 | <0.005 |
| Methyl tert-butyl ether | <0.005 | | | | <0.005 | <0.005 | | | |
| TPH (C10 - C40) | | 18.00 | 23.00 | <10 | | | 27.00 | 72.00 | <10 |
| Aliphatic C5 - C6 | <0.01 | | | | <0.01 | <0.01 | | | |
| Aliphatic C6 - C8 | 4.90 | | | | 0.40 | <0.01 | | | |
| Aliphatic C8 – C10 | 31.00 | | | | 0.53 | <0.01 | | | |
| Aliphatic C10 – C12 | U/S [*U/S] | | | | 16.00 | <1 | | | |
| Aliphatic C12 – C16 | U/S [*U/S] | | | | 54.00 | <2 | | | |
| Aliphatic C16 – C21 | U/S [*U/S] | | | | 53.00 | <8 | | | |
| Aliphatic C21 – C35 | U/S [*U/S] | | | | 47.00 | <8 | | | |
| Aliphatic C5 – C35 | 36.00 | | | | 170.00 | <10 | | | |
| Aromatic C5 - C7 | 32.00 | | | | 46.00 | 0.88 | | | |
| Aromatic C7 - C8 | 36.00 | | | | 42.00 | 0.46 | | | |
| Aromatic C8 – C10 | 120.00 | | | | 66.00 | 25.00 | | | |
| Aromatic C10 – C12 | U/S [*U/S] | | | | 1800.00 | 12.00 | | | |
| Aromatic C12 – C16 | U/S [*U/S] | | | | 3500.00 | <2 | | | |
| Aromatic C16 – C21 | U/S [*U/S] | | | | 6000.00 | <10 | | | |
| Aromatic C21 – C35 | U/S [*U/S] | | | | 4200.00 | <10 | | | |
| Aromatic C5 – C35 | U/S | | | | 16000.00 | 38.00 | | | |
| Chloromethane | | | | | <0.005 | | | | |
| Chloroethane | | | | | <0.005 | | | | |
| Bromomethane | | | | | <0.005 | | | | |
| Vinyl chloride (Chloroethene) | | | | | <0.005 | | | | |
| Trichlorofluoromethane | | | | | <0.005 | | | | |
| 1,1-Dichloroethene | | | | | <0.005 | | | | |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | | | | | <0.005 | | | | |
| Trans 1,2 Dichloroethene | | | | | <0.005 | | | | |
| 1,1-Dichloroethane | | | | | <0.005 | | | | |
| 2,2-Dichloropropane | | | | | <0.005 | | | | |
| Trichloromethane (Chloroform) | | | | | <0.005 | | | | |
| 1,1,1-Trichloroethane (TCA) | | | | | <0.005 | | | | |
| 1,2-Dichloroethane | | | | | <0.007 | | | | |
| 1,1-Dichloropropene | | | | | <0.005 | | | | |
| Cis 1,2 Dichloroethene | | | | | <0.005 | | | | |
| Carbon tetrachloride (Tetrachloromethane) | | | | | <0.005 | | | | |
| 1,2-Dichloropropane | | | | | <0.006 | | | | |
| Trichloroethylene | | | | | <0.01 | | | | |
| Dibromomethane | | | | | <0.005 | | | | |
| Bromodichloromethane | | | | | <0.005 | | | | |
| Cis-1,3-dichloropropene | | | | | <0.005 | | | | |
| Trans-1,3-dichloropropene | | | | | <0.01 | | | | |
| 1,1,2 Trichloroethane | | | | | <0.006 | | | | |
| 1,3-Dichloropropane | | | | | <0.005 | | | | |
| Dibromochloromethane | | | | | <0.005 | | | | |
| Tetrachloroethylene | | | | | <0.005 | | | | |
| 1,2-Dibromoethane | | | | | <0.005 | | | | |
| ChloroBenzene | | | | | <0.005 | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | | | | | <0.005 | | | | |
| Styrene | | | | | **29.00** | | | | |
| Bromoform | | | | | <0.005 | | | | |
| Iso-propylbenzene | | | | | 0.40 | | | | |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | | | | | <0.005 | | | | |
| Bromobenzene | | | | | <0.005 | | | | |
| n-Propylbenzene | | | | | 0.58 | | | | |
| 2-Chlorotoluene | | | | | <0.005 | | | | |
| 4-Chlorotoluene | | | | | <0.005 | | | | |
| 1,3,5-Trimethylbenzene | | | | | 6.10 | | | | |
| tert-Butylbenzene | | | | | <0.005 | | | | |
| 1,2,4-Trimethylbenzene | | | | | **13.00** | | | | |
| sec-Butylbenzene | | | | | <0.005 | | | | |
| 1,3-dichlorobenzene | | | | | <0.005 | | | | |
| p-Isopropyltoluene | | | | | <0.005 | | | | |
| 1,4-dichlorobenzene | | | | | <0.005 | | | | |
| 1,2-dichlorobenzene | | | | | | | | | |
| Butylbenzene | | | | | <0.005 | | | | |
| 1,2-Dibromo-3-chloropropane | | | | | <0.008 | | | | |
| 1,2,4-trichlorobenzene | | | | | <0.005 | | | | |
| Hexachlorobutadiene | | | | | <0.005 | | | | |
| 1,2,3-trichlorobenzene | | | | | <0.005 | | | | |
| Aniline | | | | | <0.1 | | | | |
| Phenol | | | | | 2.40 | | | | |
| 2-chlorophenol | | | | | <0.1 | | | | |
| Bis(2-chloroethyl)ether | | | | | <0.2 | | | | |
| 1,3-dichlorobenzene | | | | | <0.2 | | | | |
| 1,2-dichlorobenzene | | | | | <0.1 | | | | |
| 1,4-dichlorobenzene | | | | | <0.2 | | | | |
| Bis(2-chloroisopropyl)ether | | | | | <0.1 | | | | |
| 2-Methylphenol | | | | | 55.00 | | | | |
| Hexachloroethane | | | | | <0.05 | | | | |
| Nitrobenzene | | | | | <0.3 | | | | |
| 4-Methylphenol | | | | | 91.00 | | | | |
| Isophorone | | | | | <0.2 | | | | |
| 2-Nitrophenol | | | | | <0.3 | | | | |
| 2,4-Dimethylphenol | | | | | **220.00** | | | | |
| Bis(2-chloroethoxy)methane | | | | | <0.3 | | | | |
| 1,2,4-trichlorobenzene | | | | | <0.3 | | | | |
| 2,4-Dichlorophenol | | | | | <0.3 | | | | |
| 4-Chloroaniline | | | | | <0.1 | | | | |
| Hexachlorobutadiene | | | | | <0.1 | | | | |
| 4-Chloro-3-methylphenol | | | | | <0.1 | | | | |
| 2,4,6-Trichlorophenol | | | | | <0.1 | | | | |
| 2,4,5-Trichlorophenol | | | | | <0.2 | | | | |
| 2-Methylnaphthalene | | | | | 620.00 | | | | |
| 2-Chloronaphthalene | | | | | <0.1 | | | | |
| Dimethylphthalate | | | | | <0.1 | | | | |
| 2,6-Dinitrotoluene | | | | | <0.1 | | | | |
| 2,4-Dinitrotoluene | | | | | <0.2 | | | | |
| Dibenzofuran | | | | | 550.00 | | | | |
| 4-Chlorophenyl phenyl ether | | | | | <0.3 | | | | |
| Diethyl phthalate | | | | | <0.2 | | | | |
| 4-Nitroaniline | | | | | <0.2 | | | | |
| Azobenzene | | | | | <0.3 | | | | |
| Bromophenyl phenyl ether | | | | | <0.2 | | | | |
| Hexachlorobenzene | | | | | <0.3 | | | | |
| Carbazole | | | | | 320.00 | | | | |
| Dibutyl phthalate | | | | | <0.2 | | | | |
| Anthraquinone | | | | | 14.00 | | | | |
| Butyl benzyl phthalate | | | | | <0.3 | | | | |

| Sample Location | MW25-18 | MW25-18 | MW25-11 | MW25-11 | MW25-11-DUP | TP25-21 | MW25-14 | MW25-14 | MW25-14-DUP | TP25-20 | TP25-20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Tar well | Tar well | Primary purifiers | Primary purifiers | Primary purifiers | Primary purifiers | Purifier Catch box | Purifier Catch box | Purifier Catch box | Purifier Catch box | Purifier Catch box |
| Depth (m bgl) | 3.45 | 5.00 | 3.15 | 6.50 | 6.50 | 1.65 | 1.95 | 2.70 | 2.70 | 1.00 | 1.80 |
| Date Sampled | 14/02/2025 | 14/02/2025 | 10/02/2025 | 10/02/2025 | 10/02/2025 | 12/02/2025 | 11/02/2025 | 12/02/2025 | 12/02/2025 | 12/02/2025 | 12/02/2025 |
| Stratum | BC | BC | WS&G | WS&G | WS&G | MGR | MGR | BC | BC | MGR | MGR |
| Stone Content | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 68.20 | <0.1 | <0.1 | <0.1 | 25.50 | 18.60 |
| Moisture Content | 15.00 | 11.00 | 16.00 | 19.00 | 21.00 | 17.00 | 22.00 | 14.00 | 13.00 | 15.00 | 21.00 |
| Total mass of sample received | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.70 | 0.80 | 0.80 | 0.70 | 0.70 | 0.80 |
| Asbestos in Soil | - | - | - | - | - | - | - | - | - | Detected | - |
| Asbestos in Soil Screen / Identification Name | | | | | | | | | | Amosite, Chrysotile, Crocidolite | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | | | | | Loose Fibres, Loose Fibrous Debris | |
| Asbestos Quantification Total | | | | | | | | | | 0.012 | |
| pH | 8.80 | 8.50 | 7.40 | 8.60 | 8.00 | 7.80 | 8.30 | 8.30 | 8.10 | 11.40 | 8.40 |
| Water Soluble SO4 16hr extraction (2:1) | 180.00 | 99.00 | 610.00 | 64.00 | 57.00 | 3500.00 | 5600.00 | 680.00 | 590.00 | 3100.00 | 6900.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 92.50 | 49.50 | 305.00 | 31.80 | 28.50 | 1770.00 | 2780.00 | 342.00 | 293.00 | 1530.00 | 3460.00 |
| Sulphide | 8.50 | 41.00 | 6.30 | 11.00 | 11.00 | 35.00 | 340.00 | 1.20 | 2.40 | 2.50 | 300.00 |
| Ammonium as NH4 | 9.90 | 46.00 | 1.80 | <0.5 | <0.5 | 2.20 | 130.00 | 130.00 | 97.00 | <0.5 | 200.00 |
| Organic Matter (automated) | 0.70 | 1.0 | 3.50 | 0.40 | 0.30 | 1.40 | 6.00 | 0.60 | 0.60 | 1.60 | 9.10 |
| Fraction Organic Carbon (FOC) | | | 0.020 | | | | | | | | |
| Total Organic Carbon (TOC) | | | | | | | | | | | |
| Loss on Ignition | 1.0 | 1.0 | 3.70 | 0.50 | 0.40 | 4.30 | 6.40 | 3.00 | 2.60 | 3.60 | 13.00 |
| Cyanide (Total) (as CN) | 1.80 | <1 | 1.70 | <1 | <1 | 480.00 | 1200.00 | 1.60 | 2.20 | 56.00 | 580.00 |
| Complexed cyanide | 1.80 | <1 | 1.70 | <1 | <1 | 480.00 | 1200.00 | 1.60 | 2.20 | 54.00 | 570.00 |
| Easily liberatable cyanide | <1 | <1 | <1 | <1 | <1 | **5.00** | **11.00** | <1 | <1 | **1.90** | **12.00** |
| Thiocyanate | <5 | <5 | <5 | <5 | <5 | 6.60 | 26.00 | <5 | <5 | <5 | 57.00 |
| Chloride | 38.00 | 100.00 | 35.00 | 6.90 | 6.80 | 84.00 | 550.00 | 43.00 | 38.00 | 21.00 | 1100.00 |
| Sulphur (Elemental) | 56.00 | <5 | 7.80 | 7.80 | <5 | 280.00 | 4900.00 | <5 | <5 | <5 | 5100.00 |
| Catechol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | 0.090 | <0.05 | 0.080 | 0.050 | <0.05 | <0.05 | **160.00** | <0.05 | <0.05 | 0.92 | **440.00** |
| Acenaphthylene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.28 | 3.60 | <0.05 | <0.05 | 1.20 | 4.10 |
| Acenaphthene | 0.060 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 4.70 | <0.05 | <0.05 | 0.10 | 4.90 |
| Fluorene | 0.10 | <0.05 | <0.05 | <0.05 | <0.05 | 0.16 | 8.90 | <0.05 | <0.05 | 0.17 | 9.10 |
| Phenanthrene | 0.15 | <0.05 | <0.05 | <0.05 | <0.05 | 1.40 | 29.00 | <0.05 | <0.05 | 1.20 | 36.00 |
| Anthracene | 0.080 | <0.05 | <0.05 | <0.05 | <0.05 | 0.43 | 10.00 | <0.05 | <0.05 | 0.50 | 11.00 |
| Fluoranthene | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | 2.60 | 28.00 | <0.05 | <0.05 | 2.90 | 38.00 |
| Pyrene | 0.15 | <0.05 | <0.05 | <0.05 | <0.05 | 2.30 | 24.00 | <0.05 | <0.05 | 2.60 | 31.00 |
| Benzo[a]anthracene | 0.050 | <0.05 | <0.05 | <0.05 | <0.05 | 1.10 | 8.60 | <0.05 | <0.05 | 1.40 | 12.00 |
| Chrysene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.20 | 8.50 | <0.05 | <0.05 | 1.40 | 13.00 |
| Benzo[b]fluoranthene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.50 | 8.90 | <0.05 | <0.05 | 2.80 | 15.00 |
| Benzo[k]fluoranthene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.75 | 4.60 | <0.05 | <0.05 | 0.84 | 5.40 |
| Benzo[a]pyrene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.20 | 7.00 | <0.05 | <0.05 | 2.10 | 11.00 |
| Indeno[1,2,3-cd]pyrene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.84 | 4.90 | <0.05 | <0.05 | 2.60 | 6.60 |
| Dibenz(a,h)anthracene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.18 | 0.87 | <0.05 | <0.05 | 0.47 | <0.05 |
| Benzo[ghi]perylene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.85 | 5.50 | <0.05 | <0.05 | 3.10 | 7.50 |
| PAH 16 Total | 0.90 | <0.8 | <0.8 | <0.8 | <0.8 | 14.70 | 314.00 | <0.8 | <0.8 | 24.20 | 642.00 |
| Arsenic | 5.60 | 4.80 | 4.50 | 9.00 | 7.50 | 22.00 | 36.00 | 9.40 | 10.00 | 75.00 | 23.00 |
| Boron | 0.80 | 0.80 | 0.70 | 0.40 | 0.40 | 4.70 | 3.80 | 0.70 | 1.30 | 2.10 | 4.40 |
| Cadmium | <0.2 | <0.2 | 0.50 | <0.2 | <0.2 | <0.2 | <0.2 | 0.20 | 0.20 | <0.2 | <0.2 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | | |
| Chromium (Total) | 13.00 | 20.00 | 14.00 | 7.40 | 7.10 | 64.00 | 51.00 | 29.00 | 27.00 | 28.00 | 69.00 |
| Copper | 14.00 | 15.00 | 22.00 | 10.00 | 9.40 | 73.00 | 65.00 | 21.00 | 20.00 | 49.00 | 74.00 |
| Lead | 7.50 | 10.00 | 8.60 | 7.00 | 6.00 | 77.00 | 580.00 | 11.00 | 12.00 | 260.00 | 610.00 |
| Mercury (inorganic) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 1.20 | 5.20 | <0.3 | <0.3 | 3.50 | 23.00 |
| Nickel | 13.00 | 19.00 | 22.00 | 9.40 | 9.00 | 34.00 | 29.00 | 28.00 | 27.00 | 26.00 | 24.00 |
| Selenium | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.40 | 1.20 |
| Zinc | 35.00 | 43.00 | 46.00 | 41.00 | 37.00 | 110.00 | 96.00 | 59.00 | 55.00 | 230.00 | 130.00 |
| Benzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | **0.89** | | | | 0.13 |
| Toluene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 1.10 | | | | 0.92 |
| Ethylbenzene | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 5.30 | | | | 5.70 |
| Xylene (p & m-Xylene) | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | 16.00 | | | | 22.00 |
| Xylene (o-Xylene) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 6.50 | | | | 11.00 |
| Methyl tert-butyl ether | <0.005 | | | | | | <0.005 | | | | <0.005 |
| TPH (C10 - C40) | | <10 | 400.00 | 13.00 | <10 | | | <10 | <10 | 170.00 | |
| Aliphatic C5 - C6 | <0.01 | | | | | <0.01 | <0.01 | | | | <0.01 |
| Aliphatic C6 - C8 | <0.01 | | | | | <0.01 | 0.66 | | | | 0.33 |
| Aliphatic C8 – C10 | <0.01 | | | | | <0.01 | 2.80 | | | | 3.70 |
| Aliphatic C10 – C12 | <1 | | | | | 2.20 | 100.00 | | | | 150.00 |
| Aliphatic C12 – C16 | <2 | | | | | 6.10 | 140.00 | | | | 210.00 |
| Aliphatic C16 – C21 | <8 | | | | | 49.00 | 230.00 | | | | 220.00 |
| Aliphatic C21 – C35 | <8 | | | | | 88.00 | 460.00 | | | | 480.00 |
| Aliphatic C5 – C35 | <10 | | | | | 150.00 | 930.00 | | | | 1100.00 |
| Aromatic C5 - C7 | <0.01 | | | | | <0.01 | 0.90 | | | | 0.13 |
| Aromatic C7 - C8 | <0.01 | | | | | <0.01 | 1.30 | | | | 0.99 |
| Aromatic C8 – C10 | <0.02 | | | | | <0.02 | 35.00 | | | | 45.00 |
| Aromatic C10 – C12 | <1 | | | | | <1 | 220.00 | | | | 540.00 |
| Aromatic C12 – C16 | <2 | | | | | 3.50 | 270.00 | | | | 430.00 |
| Aromatic C16 – C21 | <10 | | | | | 28.00 | 480.00 | | | | 620.00 |
| Aromatic C21 – C35 | <10 | | | | | 46.00 | 540.00 | | | | 670.00 |
| Aromatic C5 – C35 | <10 | | | | | 78.00 | 1500.00 | | | | 2300.00 |
| Chloromethane | | | | | | | <0.005 | | | | <0.005 |
| Chloroethane | | | | | | | <0.005 | | | | <0.005 |
| Bromomethane | | | | | | | <0.005 | | | | <0.005 |
| Vinyl chloride (Chloroethene) | | | | | | | <0.005 | | | | <0.005 |
| Trichlorofluoromethane | | | | | | | <0.005 | | | | <0.005 |
| 1,1-Dichloroethene | | | | | | | <0.005 | | | | <0.005 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | | | | | | | <0.005 | | | | <0.005 |
| Trans 1,2 Dichloroethene | | | | | | | <0.005 | | | | <0.005 |
| 1,1-Dichloroethane | | | | | | | <0.005 | | | | <0.005 |
| 2,2-Dichloropropane | | | | | | | <0.005 | | | | <0.005 |
| Trichloromethane (Chloroform) | | | | | | | <0.005 | | | | <0.005 |
| 1,1,1-Trichloroethane (TCA) | | | | | | | <0.005 | | | | <0.005 |
| 1,2-Dichloroethane | | | | | | | <0.007 | | | | <0.007 |
| 1,1-Dichloropropene | | | | | | | <0.005 | | | | <0.005 |
| Cis 1,2 Dichloroethene | | | | | | | <0.005 | | | | <0.005 |
| Carbon tetrachloride (Tetrachloromethane) | | | | | | | <0.005 | | | | <0.005 |
| 1,2-Dichloropropane | | | | | | | <0.006 | | | | <0.006 |
| Trichloroethylene | | | | | | | <0.01 | | | | <0.01 |
| Dibromomethane | | | | | | | <0.005 | | | | <0.005 |
| Bromodichloromethane | | | | | | | <0.005 | | | | <0.005 |
| Cis-1,3-dichloropropene | | | | | | | <0.005 | | | | <0.005 |
| Trans-1,3-dichloropropene | | | | | | | <0.01 | | | | <0.01 |
| 1,1,2 Trichloroethane | | | | | | | <0.006 | | | | <0.006 |
| 1,3-Dichloropropane | | | | | | | <0.005 | | | | <0.005 |
| Dibromochloromethane | | | | | | | <0.005 | | | | <0.005 |
| Tetrachloroethylene | | | | | | | <0.005 | | | | <0.005 |
| 1,2-Dibromoethane | | | | | | | <0.005 | | | | <0.005 |
| ChloroBenzene | | | | | | | <0.005 | | | | <0.005 |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | | | | | | | <0.005 | | | | <0.005 |
| Styrene | | | | | | | 0.26 | | | | 0.42 |
| Bromoform | | | | | | | <0.005 | | | | <0.005 |
| Iso-propylbenzene | | | | | | | 0.88 | | | | 0.77 |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | | | | | | | <0.005 | | | | <0.005 |
| Bromobenzene | | | | | | | <0.005 | | | | <0.005 |
| n-Propylbenzene | | | | | | | 2.40 | | | | 1.80 |
| 2-Chlorotoluene | | | | | | | <0.005 | | | | <0.005 |
| 4-Chlorotoluene | | | | | | | <0.005 | | | | <0.005 |
| 1,3,5-Trimethylbenzene | | | | | | | 4.70 | | | | 7.60 |
| tert-Butylbenzene | | | | | | | <0.005 | | | | <0.005 |
| 1,2,4-Trimethylbenzene | | | | | | | **27.00** | | | | **23.00** |
| sec-Butylbenzene | | | | | | | <0.005 | | | | <0.005 |
| 1,3-dichlorobenzene | | | | | | | <0.005 | | | | <0.005 |
| p-Isopropyltoluene | | | | | | | 1.30 | | | | 1.0 |
| 1,4-dichlorobenzene | | | | | | | <0.005 | | | | <0.005 |
| 1,2-dichlorobenzene | | | | | | | <0.005 | | | | <0.005 |
| Butylbenzene | | | | | | | <0.005 | | | | <0.005 |
| 1,2-Dibromo-3-chloropropane | | | | | | | <0.008 | | | | <0.008 |
| 1,2,4-trichlorobenzene | | | | | | | <0.005 | | | | <0.005 |
| Hexachlorobutadiene | | | | | | | <0.005 | | | | <0.005 |
| 1,2,3-trichlorobenzene | | | | | | | <0.005 | | | | <0.005 |
| Aniline | | | | | | | <0.1 | | | | <0.1 |
| Phenol | | | | | | | <0.2 | | | | <0.2 |
| 2-chlorophenol | | | | | | | <0.1 | | | | <0.1 |
| Bis(2-chloroethyl)ether | | | | | | | <0.2 | | | | <0.2 |
| 1,3-dichlorobenzene | | | | | | | <0.2 | | | | <0.2 |
| 1,2-dichlorobenzene | | | | | | | <0.1 | | | | <0.1 |
| 1,4-dichlorobenzene | | | | | | | <0.2 | | | | <0.2 |
| Bis(2-chloroisopropyl)ether | | | | | | | <0.1 | | | | <0.1 |
| 2-Methylphenol | | | | | | | <0.3 | | | | <0.3 |
| Hexachloroethane | | | | | | | <0.05 | | | | <0.05 |
| Nitrobenzene | | | | | | | <0.3 | | | | <0.3 |
| 4-Methylphenol | | | | | | | <0.2 | | | | <0.2 |
| Isophorone | | | | | | | <0.2 | | | | <0.2 |
| 2-Nitrophenol | | | | | | | <0.3 | | | | <0.3 |
| 2,4-Dimethylphenol | | | | | | | <0.3 | | | | <0.3 |
| Bis(2-chloroethoxy)methane | | | | | | | <0.3 | | | | <0.3 |
| 1,2,4-trichlorobenzene | | | | | | | <0.3 | | | | <0.3 |
| 2,4-Dichlorophenol | | | | | | | <0.3 | | | | <0.3 |
| 4-Chloroaniline | | | | | | | <0.1 | | | | <0.1 |
| Hexachlorobutadiene | | | | | | | <0.1 | | | | <0.1 |
| 4-Chloro-3-methylphenol | | | | | | | <0.1 | | | | <0.1 |
| 2,4,6-Trichlorophenol | | | | | | | <0.1 | | | | <0.1 |
| 2,4,5-Trichlorophenol | | | | | | | <0.2 | | | | <0.2 |
| 2-Methylnaphthalene | | | | | | | 11.00 | | | | 48.00 |
| 2-Chloronaphthalene | | | | | | | <0.1 | | | | <0.1 |
| Dimethylphthalate | | | | | | | <0.1 | | | | <0.1 |
| 2,6-Dinitrotoluene | | | | | | | <0.1 | | | | <0.1 |
| 2,4-Dinitrotoluene | | | | | | | <0.2 | | | | <0.2 |
| Dibenzofuran | | | | | | | 4.00 | | | | 7.50 |
| 4-Chlorophenyl phenyl ether | | | | | | | <0.3 | | | | <0.3 |
| Diethyl phthalate | | | | | | | <0.2 | | | | <0.2 |
| 4-Nitroaniline | | | | | | | <0.2 | | | | <0.2 |
| Azobenzene | | | | | | | <0.3 | | | | <0.3 |
| Bromophenyl phenyl ether | | | | | | | <0.2 | | | | <0.2 |
| Hexachlorobenzene | | | | | | | <0.3 | | | | <0.3 |
| Carbazole | | | | | | | 2.70 | | | | 3.30 |
| Dibutyl phthalate | | | | | | | <0.2 | | | | <0.2 |
| Anthraquinone | | | | | | | 1.60 | | | | 3.00 |
| Butyl benzyl phthalate | | | | | | | 1.80 | | | | <0.3 |

| Sample Location | MW25-09C | MW25-09C | MW25-12 | MW25-12 | MW25-12-DUP | MW25-16A | MW25-16A | MW25-16A | MW25-16A | MW25-20 | MW25-20 | MW25-20 | MW25-20-DUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Brick structure | Brick structure | Oxide shed | Oxide shed | Oxide shed | Scrubbers | Scrubbers | Scrubbers | Scrubbers | CWG plant | CWG plant | CWG plant | CWG plant |
| Depth (m bgl) | 8.40 | 9.65 | 1.00 | 5.25 | 5.25 | 2.00 | 3.80 | 4.65 | 5.30 | 1.00 | 5.40 | 9.90 | 9.90 |
| Date Sampled | 07/02/2025 | 07/02/2025 | 11/02/2025 | 11/02/2025 | 11/02/2025 | 12/02/2025 | 13/02/2025 | 13/02/2025 | 13/02/2025 | 17/02/2025 | 17/02/2025 | 17/02/2025 | 17/02/2025 |
| Stratum | MGR | WCM | MGR | WS&G | WS&G | BC | BC | BC | BC | MGR | WS&G | WCM | WCM |
| Stone Content | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 32.40 | <0.1 | <0.1 | <0.1 |
| Moisture Content | 22.00 | 15.00 | 16.00 | 17.00 | 21.00 | 15.00 | 12.00 | 12.00 | 12.00 | 12.00 | 17.00 | 19.00 | 18.00 |
| Total mass of sample received | 0.60 | 0.60 | 0.80 | 0.70 | 0.80 | 0.80 | 0.60 | 0.60 | 0.60 | 0.50 | 0.60 | 0.50 | 0.60 |
| Asbestos in Soil | - | - | - | - | - | - | - | - | - | Not-detected | - | - | - |
| Asbestos in Soil Screen / Identification Name | | | | | | | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | | | | | | | | |
| Asbestos Quantification Total | | | | | | | | | | | | | |
| pH | 8.10 | 8.10 | 7.10 | 7.60 | 7.30 | 8.90 | 8.60 | 8.40 | 8.50 | 9.20 | 8.30 | 8.70 | 8.80 |
| Water Soluble SO4 16hr extraction (2:1) | 360.00 | 170.00 | 3100.00 | 320.00 | 490.00 | 620.00 | 98.00 | 100.00 | 110.00 | 850.00 | 320.00 | 69.00 | 73.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 180.00 | 83.30 | 1550.00 | 158.00 | 247.00 | 310.00 | 48.80 | 50.90 | 57.30 | 426.00 | 161.00 | 34.20 | 36.50 |
| Sulphide | 130.00 | 110.00 | 9.60 | 33.00 | 34.00 | 60.00 | <1 | 31.00 | 65.00 | 14.00 | 130.00 | 140.00 | 150.00 |
| Ammonium as NH4 | 23.00 | 2.40 | 20.00 | 2.00 | 2.90 | 240.00 | 430.00 | 120.00 | 140.00 | <0.5 | 36.00 | 270.00 | 130.00 |
| Organic Matter (automated) | 3.60 | 2.60 | 3.00 | 0.30 | 0.30 | 2.20 | 3.60 | 1.30 | 1.0 | 2.90 | 1.40 | 1.30 | 1.40 |
| Fraction Organic Carbon (FOC) | 0.021 | | | 0.0017 | | | | 0.0077 | | | | 0.0073 | |
| Total Organic Carbon (TOC) | | | | | | | | | | | | | |
| Loss on Ignition | 4.20 | 2.90 | 5.00 | 0.40 | 0.50 | 3.00 | 3.70 | 1.80 | 2.00 | 6.30 | 1.60 | 1.60 | 1.70 |
| Cyanide (Total) (as CN) | 10.00 | <1 | 10.00 | <1 | <1 | 12.00 | U/S [*U/S f] | <1 | <1 | 1.40 | <1 | <1 | <1 |
| Complexed cyanide | 10.00 | <1 | 9.00 | <1 | <1 | 12.00 | U/S | <1 | <1 | 1.40 | <1 | <1 | <1 |
| Easily liberatable cyanide | <1 | <1 | 1.20 | <1 | <1 | <1 | U/S [*U/S f] | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloride | 130.00 | 25.00 | 110.00 | 55.00 | 61.00 | 220.00 | 240.00 | 140.00 | 120.00 | 41.00 | 89.00 | 59.00 | 58.00 |
| Sulphur (Elemental) | 330.00 | 7.90 | 55.00 | 330.00 | 450.00 | 3800.00 | <5 | 28.00 | <5 | 18.00 | 370.00 | 11.00 | 12.00 |
| Catechol | <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 |
| Resorcinol | <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 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | <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-Isopropylphenol | <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 |
| Phenol | <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 |
| Trimethylphenol (2,3,5-) | <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 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | **33.00** | 0.16 | 0.21 | <0.05 | <0.05 | **44.00** | **430.00** | 4.00 | 0.29 | 2.80 | **650.00** | 3.20 | 0.17 |
| Acenaphthylene | 0.41 | <0.05 | <0.05 | <0.05 | <0.05 | 1.30 | 150.00 | 0.060 | 0.050 | 0.32 | 76.00 | 0.070 | <0.05 |
| Acenaphthene | 0.69 | <0.05 | 0.50 | <0.05 | <0.05 | 2.50 | 23.00 | 0.13 | <0.05 | 0.060 | 22.00 | <0.05 | <0.05 |
| Fluorene | 1.70 | <0.05 | 0.59 | <0.05 | <0.05 | 3.80 | 140.00 | <0.05 | 0.080 | 0.12 | 44.00 | <0.05 | <0.05 |
| Phenanthrene | 6.70 | <0.05 | 5.90 | <0.05 | <0.05 | 8.30 | 620.00 | 0.14 | 0.34 | 1.90 | 66.00 | <0.05 | <0.05 |
| Anthracene | 2.50 | <0.05 | 1.70 | <0.05 | <0.05 | 3.00 | 150.00 | <0.05 | <0.05 | 0.41 | 15.00 | <0.05 | <0.05 |
| Fluoranthene | 9.00 | <0.05 | 8.50 | <0.05 | <0.05 | 6.10 | 420.00 | 0.090 | 0.18 | 2.80 | 31.00 | <0.05 | <0.05 |
| Pyrene | 7.60 | <0.05 | 7.50 | <0.05 | <0.05 | 4.70 | 330.00 | 0.080 | 0.16 | 2.40 | 23.00 | <0.05 | <0.05 |
| Benzo[a]anthracene | 4.90 | <0.05 | 5.00 | <0.05 | <0.05 | 2.00 | 140.00 | <0.05 | 0.060 | 1.60 | 9.20 | <0.05 | <0.05 |
| Chrysene | 4.70 | <0.05 | 5.30 | <0.05 | <0.05 | 1.70 | 110.00 | <0.05 | <0.05 | 1.70 | 9.00 | <0.05 | <0.05 |
| Benzo[b]fluoranthene | 6.00 | <0.05 | 7.20 | <0.05 | <0.05 | 2.00 | 140.00 | <0.05 | 0.060 | 2.00 | 8.40 | <0.05 | <0.05 |
| Benzo[k]fluoranthene | 2.10 | <0.05 | 2.60 | <0.05 | <0.05 | 0.69 | 46.00 | <0.05 | <0.05 | 0.91 | 3.70 | <0.05 | <0.05 |
| Benzo[a]pyrene | 5.50 | <0.05 | 6.30 | <0.05 | <0.05 | 1.70 | 140.00 | <0.05 | <0.05 | 1.40 | 6.00 | <0.05 | <0.05 |
| Indeno[1,2,3-cd]pyrene | 2.60 | <0.05 | 4.20 | <0.05 | <0.05 | 0.67 | 60.00 | <0.05 | <0.05 | 0.89 | 3.40 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | 0.52 | <0.05 | 0.78 | <0.05 | <0.05 | 0.12 | 14.00 | <0.05 | <0.05 | 0.17 | 1.40 | <0.05 | <0.05 |
| Benzo[ghi]perylene | 2.60 | <0.05 | 4.50 | <0.05 | <0.05 | 0.66 | 64.00 | <0.05 | <0.05 | 0.99 | 2.90 | <0.05 | <0.05 |
| PAH 16 Total | 90.90 | <0.8 | 60.90 | <0.8 | <0.8 | 83.30 | 2960.00 | 4.49 | 1.23 | 20.50 | 968.00 | 3.22 | <0.8 |
| Arsenic | 9.70 | 13.00 | 14.00 | 2.10 | 2.40 | 13.00 | 23.00 | 2.70 | 5.40 | 14.00 | 3.20 | 11.00 | 11.00 |
| Boron | 3.90 | 1.10 | 2.70 | 0.60 | 0.60 | 1.10 | 1.0 | 0.60 | 1.20 | 1.80 | 0.70 | 1.0 | 1.10 |
| Cadmium | <0.2 | <0.2 | 0.40 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | U/S [*U/S f] | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | | | | |
| Chromium (Total) | 22.00 | 41.00 | 21.00 | 6.80 | 7.90 | 19.00 | 16.00 | 9.00 | 22.00 | 14.00 | 8.10 | 14.00 | 16.00 |
| Copper | 24.00 | 24.00 | 42.00 | 8.20 | 6.50 | 18.00 | 13.00 | 9.40 | 16.00 | 30.00 | 14.00 | 23.00 | 19.00 |
| Lead | 45.00 | 15.00 | 92.00 | 4.40 | 4.80 | 35.00 | 9.30 | 4.20 | 8.80 | 140.00 | 5.80 | 8.70 | 9.20 |
| Mercury (inorganic) | 20.00 | <0.3 | 0.40 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel | 20.00 | 35.00 | 20.00 | 9.40 | 10.00 | 20.00 | 19.00 | 7.90 | 22.00 | 15.00 | 7.50 | 16.00 | 16.00 |
| Selenium | 1.70 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Zinc | 59.00 | 74.00 | 70.00 | 31.00 | 31.00 | 51.00 | 63.00 | 24.00 | 46.00 | 47.00 | 26.00 | 45.00 | 51.00 |
| Benzene | 0.14 | <0.005 | | | | **1.80** | **2.90** | 0.091 | 0.041 | <0.005 | **5.40** | **3.50** | **9.10** |
| Toluene | 0.088 | 0.012 | | | | 0.17 | 11.00 | 0.095 | 0.023 | <0.005 | 26.00 | <0.005 | <0.005 |
| Ethylbenzene | 7.20 | 0.0060 | | | | 2.20 | 2.30 | <0.005 | <0.005 | <0.005 | 37.00 | <0.005 | <0.005 |
| Xylene (p & m-Xylene) | 0.82 | <0.008 | | | | 2.50 | 26.00 | <0.008 | <0.008 | <0.008 | 100.00 | <0.008 | <0.008 |
| Xylene (o-Xylene) | 0.19 | <0.005 | | | | 3.60 | 11.00 | <0.005 | <0.005 | <0.005 | **67.00** | <0.005 | <0.005 |
| Methyl tert-butyl ether | <0.005 | <0.005 | | | | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | | |
| TPH (C10 - C40) | | | 65.00 | <10 | <10 | | | | <10 | 1200.00 | | <10 | <10 |
| Aliphatic C5 - C6 | <0.01 | <0.01 | | | | <0.01 | <0.01 | <0.01 | | <0.01 | 0.28 | | |
| Aliphatic C6 - C8 | 0.21 | <0.01 | | | | 0.12 | <0.01 | <0.01 | | <0.01 | 28.00 | | |
| Aliphatic C8 – C10 | 0.21 | <0.01 | | | | 1.10 | 0.57 | <0.01 | | <0.01 | 120.00 | | |
| Aliphatic C10 – C12 | 2.30 | <1 | | | | 5.30 | 2.30 | <1 | | 9.80 | 220.00 | | |
| Aliphatic C12 – C16 | 4.20 | <2 | | | | 17.00 | 13.00 | <2 | | 220.00 | 960.00 | | |
| Aliphatic C16 – C21 | <8 | <8 | | | | <8 | 12.00 | <8 | | 460.00 | 310.00 | | |
| Aliphatic C21 – C35 | <8 | <8 | | | | <8 | 26.00 | <8 | | 250.00 | 56.00 | | |
| Aliphatic C5 – C35 | <10 | <10 | | | | 23.00 | 55.00 | <10 | | 940.00 | 1700.00 | | |
| Aromatic C5 - C7 | 0.20 | <0.01 | | | | 1.80 | 2.80 | 0.092 | | <0.01 | 5.40 | | |
| Aromatic C7 - C8 | 0.23 | 0.012 | | | | 0.22 | 11.00 | 0.093 | | <0.01 | 27.00 | | |
| Aromatic C8 – C10 | 12.00 | 0.022 | | | | 10.00 | 41.00 | <0.02 | | <0.02 | 250.00 | | |
| Aromatic C10 – C12 | 48.00 | <1 | | | | 34.00 | 580.00 | <1 | | 2.50 | 770.00 | | |
| Aromatic C12 – C16 | 77.00 | <2 | | | | 47.00 | 1000.00 | <2 | | 24.00 | 1000.00 | | |
| Aromatic C16 – C21 | 180.00 | <10 | | | | 82.00 | 2600.00 | <10 | | 95.00 | 400.00 | | |
| Aromatic C21 – C35 | 210.00 | <10 | | | | 57.00 | 610.00 | <10 | | 93.00 | 150.00 | | |
| Aromatic C5 – C35 | 530.00 | <10 | | | | 230.00 | 4900.00 | <10 | | 220.00 | 2600.00 | | |
| Chloromethane | | | | | | <0.005 | <0.005 | | | | | | |
| Chloroethane | | | | | | <0.005 | <0.005 | | | | | | |
| Bromomethane | | | | | | <0.005 | <0.005 | | | | | | |
| Vinyl chloride (Chloroethene) | | | | | | <0.005 | <0.005 | | | | | | |
| Trichlorofluoromethane | | | | | | <0.005 | <0.005 | | | | | | |
| 1,1-Dichloroethene | | | | | | <0.005 | <0.005 | | | | | | |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | | | | | | <0.005 | <0.005 | | | | | | |
| Trans 1,2 Dichloroethene | | | | | | <0.005 | <0.005 | | | | | | |
| 1,1-Dichloroethane | | | | | | <0.005 | <0.005 | | | | | | |
| 2,2-Dichloropropane | | | | | | <0.005 | <0.005 | | | | | | |
| Trichloromethane (Chloroform) | | | | | | <0.005 | <0.005 | | | | | | |
| 1,1,1-Trichloroethane (TCA) | | | | | | <0.005 | <0.005 | | | | | | |
| 1,2-Dichloroethane | | | | | | <0.007 | <0.007 | | | | | | |
| 1,1-Dichloropropene | | | | | | <0.005 | <0.005 | | | | | | |
| Cis 1,2 Dichloroethene | | | | | | <0.005 | <0.005 | | | | | | |
| Carbon tetrachloride (Tetrachloromethane) | | | | | | <0.005 | <0.005 | | | | | | |
| 1,2-Dichloropropane | | | | | | <0.006 | <0.006 | | | | | | |
| Trichloroethylene | | | | | | <0.01 | <0.01 | | | | | | |
| Dibromomethane | | | | | | <0.005 | <0.005 | | | | | | |
| Bromodichloromethane | | | | | | <0.005 | <0.005 | | | | | | |
| Cis-1,3-dichloropropene | | | | | | <0.005 | <0.005 | | | | | | |
| Trans-1,3-dichloropropene | | | | | | <0.01 | <0.01 | | | | | | |
| 1,1,2 Trichloroethane | | | | | | <0.006 | <0.006 | | | | | | |
| 1,3-Dichloropropane | | | | | | <0.005 | <0.005 | | | | | | |
| Dibromochloromethane | | | | | | <0.005 | <0.005 | | | | | | |
| Tetrachloroethylene | | | | | | <0.005 | <0.005 | | | | | | |
| 1,2-Dibromoethane | | | | | | <0.005 | <0.005 | | | | | | |
| ChloroBenzene | | | | | | <0.005 | <0.005 | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | | | | | | <0.005 | <0.005 | | | | | | |
| Styrene | | | | | | 0.15 | <0.005 | | | | | | |
| Bromoform | | | | | | <0.005 | <0.005 | | | | | | |
| Iso-propylbenzene | | | | | | 0.32 | 0.21 | | | | | | |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | | | | | | <0.005 | <0.005 | | | | | | |
| Bromobenzene | | | | | | <0.005 | <0.005 | | | | | | |
| n-Propylbenzene | | | | | | 0.54 | 0.41 | | | | | | |
| 2-Chlorotoluene | | | | | | <0.005 | <0.005 | | | | | | |
| 4-Chlorotoluene | | | | | | <0.005 | <0.005 | | | | | | |
| 1,3,5-Trimethylbenzene | | | | | | 0.52 | 7.60 | | | | | | |
| tert-Butylbenzene | | | | | | <0.005 | <0.005 | | | | | | |
| 1,2,4-Trimethylbenzene | | | | | | **8.80** | **11.00** | | | | | | |
| sec-Butylbenzene | | | | | | <0.005 | <0.005 | | | | | | |
| 1,3-dichlorobenzene | | | | | | <0.005 | <0.005 | | | | | | |
| p-Isopropyltoluene | | | | | | 0.39 | <0.005 | | | | | | |
| 1,4-dichlorobenzene | | | | | | <0.005 | | | | | | | |
| 1,2-dichlorobenzene | | | | | | <0.005 | <0.005 | | | | | | |
| Butylbenzene | | | | | | <0.005 | <0.005 | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | | | | <0.008 | <0.008 | | | | | | |
| 1,2,4-trichlorobenzene | | | | | | <0.005 | <0.005 | | | | | | |
| Hexachlorobutadiene | | | | | | <0.005 | <0.005 | | | | | | |
| 1,2,3-trichlorobenzene | | | | | | <0.005 | <0.005 | | | | | | |
| Aniline | | | | | | <0.1 | | | | | | | |
| Phenol | | | | | | <0.2 | | | | | | | |
| 2-chlorophenol | | | | | | <0.1 | | | | | | | |
| Bis(2-chloroethyl)ether | | | | | | <0.2 | | | | | | | |
| 1,3-dichlorobenzene | | | | | | <0.2 | | | | | | | |
| 1,2-dichlorobenzene | | | | | | <0.1 | | | | | | | |
| 1,4-dichlorobenzene | | | | | | <0.2 | | | | | | | |
| Bis(2-chloroisopropyl)ether | | | | | | <0.1 | | | | | | | |
| 2-Methylphenol | | | | | | <0.3 | | | | | | | |
| Hexachloroethane | | | | | | <0.05 | | | | | | | |
| Nitrobenzene | | | | | | <0.3 | | | | | | | |
| 4-Methylphenol | | | | | | <0.2 | | | | | | | |
| Isophorone | | | | | | <0.2 | | | | | | | |
| 2-Nitrophenol | | | | | | <0.3 | | | | | | | |
| 2,4-Dimethylphenol | | | | | | <0.3 | | | | | | | |
| Bis(2-chloroethoxy)methane | | | | | | <0.3 | | | | | | | |
| 1,2,4-trichlorobenzene | | | | | | <0.3 | | | | | | | |
| 2,4-Dichlorophenol | | | | | | <0.3 | | | | | | | |
| 4-Chloroaniline | | | | | | <0.1 | | | | | | | |
| Hexachlorobutadiene | | | | | | <0.1 | | | | | | | |
| 4-Chloro-3-methylphenol | | | | | | <0.1 | | | | | | | |
| 2,4,6-Trichlorophenol | | | | | | <0.1 | | | | | | | |
| 2,4,5-Trichlorophenol | | | | | | <0.2 | | | | | | | |
| 2-Methylnaphthalene | | | | | | 3.40 | | | | | | | |
| 2-Chloronaphthalene | | | | | | <0.1 | | | | | | | |
| Dimethylphthalate | | | | | | <0.1 | | | | | | | |
| 2,6-Dinitrotoluene | | | | | | <0.1 | | | | | | | |
| 2,4-Dinitrotoluene | | | | | | <0.2 | | | | | | | |
| Dibenzofuran | | | | | | 2.60 | | | | | | | |
| 4-Chlorophenyl phenyl ether | | | | | | <0.3 | | | | | | | |
| Diethyl phthalate | | | | | | <0.2 | | | | | | | |
| 4-Nitroaniline | | | | | | <0.2 | | | | | | | |
| Azobenzene | | | | | | <0.3 | | | | | | | |
| Bromophenyl phenyl ether | | | | | | <0.2 | | | | | | | |
| Hexachlorobenzene | | | | | | <0.3 | | | | | | | |
| Carbazole | | | | | | 2.90 | | | | | | | |
| Dibutyl phthalate | | | | | | <0.2 | | | | | | | |
| Anthraquinone | | | | | | <0.3 | | | | | | | |
| Butyl benzyl phthalate | | | | | | 0.40 | | | | | | | |

| Sample Location | MW25-21 | MW25-21 | MW25-21-DUP | MW25-27 | MW25-27 | MW25-27 | MW25-27-DUP | MW25-29 | MW25-29 | MW25-29 | VW25-12 | MW25-31A | MW25-31A | MW25-32 | MW25-32 | MW25-32-DUP | VW25-18 | MW25-34 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Boiler house | Boiler house | Boiler house | Retort house | Retort house | Retort house | Retort house | Exhauster | Exhauster | Exhauster | Exhauster | Meter house | Meter house | Benzol washer | Benzol washer | Benzol washer | Benzol washer | Tank |
| Depth (m bgl) | 2.00 | 5.20 | 5.20 | 3.30 | 7.60 | 9.30 | 9.30 | 10.30 | 3.80 | 8.45 | 1.15 | 1.30 | 2.00 | 1.90 | 6.20 | 6.20 | 1.00 | 1.30 |
| Date Sampled | 17/02/2025 | 17/02/2025 | 17/02/2025 | 19/02/2025 | 20/02/2025 | 20/02/2025 | 20/02/2025 | 20/02/2025 | 20/02/2025 | 20/02/2025 | 13/02/2025 | 21/02/2025 | 21/02/2025 | 24/02/2025 | 24/02/2025 | 24/02/2025 | 18/02/2025 | 25/02/2025 |
| Stratum | WS&G | WS&G | WS&G | BC | WS&G | WS&G | WS&G | WCM | BC | WS&G | MGR | MGR | BC | BC | WS&G | WS&G | MGR | MGR |
| Stone Content | <0.1 | <0.1 | <0.1 | 19.70 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 53.90 | 20.80 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 40.30 |
| Moisture Content | 11.00 | 20.00 | 19.00 | 16.00 | 20.00 | 17.00 | 18.00 | 16.00 | 15.00 | 16.00 | 11.00 | 21.00 | 14.00 | 13.00 | 14.00 | 15.00 | 21.00 | 10.00 |
| Total mass of sample received | 0.60 | 0.50 | 0.50 | 0.60 | 0.70 | 0.80 | 0.70 | 0.80 | 0.70 | 0.70 | 0.60 | 0.70 | 0.70 | 0.80 | 0.60 | 0.70 | 0.60 | 0.50 |
| Asbestos in Soil | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Not-detected |
| Asbestos in Soil Screen / Identification Name | | | | | | | | | | | | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | | | | | | | | | | | | | | | | | | |
| Asbestos Quantification Total | | | | | | | | | | | | | | | | | | |
| pH | 8.90 | 9.40 | 8.60 | 8.60 | 7.70 | 8.60 | 8.50 | 8.20 | 8.60 | 8.30 | 9.10 | 9.40 | 8.30 | 8.50 | 8.60 | 8.60 | 8.80 | 10.30 |
| Water Soluble SO4 16hr extraction (2:1) | 24.00 | 22.00 | 21.00 | 330.00 | 210.00 | 79.00 | 100.00 | 210.00 | 190.00 | 70.00 | 440.00 | 580.00 | 250.00 | 490.00 | 150.00 | 190.00 | 6400.00 | 1000.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | 12.00 | 11.10 | 10.60 | 164.00 | 104.00 | 39.70 | 50.00 | 103.00 | 96.70 | 35.10 | 221.00 | 291.00 | 127.00 | 244.00 | 77.40 | 93.00 | 3190.00 | 517.00 |
| Sulphide | <1 | 2.20 | 3.00 | 76.00 | 17.00 | 57.00 | 50.00 | 160.00 | 22.00 | 59.00 | <1 | 39.00 | 12.00 | 6.20 | 27.00 | 32.00 | 520.00 | 1.0 |
| Ammonium as NH4 | <0.5 | <0.5 | <0.5 | 320.00 | 24.00 | 81.00 | 85.00 | 33.00 | 270.00 | 51.00 | <0.5 | <0.5 | <0.5 | 160.00 | 66.00 | 63.00 | 35.00 | <0.5 |
| Organic Matter (automated) | <0.1 | <0.1 | <0.1 | 0.40 | 5.80 | 0.30 | <0.1 | 2.50 | 0.30 | <0.1 | 0.80 | 0.30 | 0.60 | 0.60 | 0.70 | 1.70 | 4.60 | 0.30 |
| Fraction Organic Carbon (FOC) | | <0.001 | | | | 0.0019 | | 0.014 | | | | | 0.0035 | | | | | |
| Total Organic Carbon (TOC) | | | | | | | | | | | 0.40 | | | | | | 2.70 | |
| Loss on Ignition | 0.60 | <0.2 | <0.2 | 1.10 | 19.00 | 0.80 | 0.70 | 3.30 | 1.0 | 0.70 | 1.30 | 1.10 | 2.00 | 1.40 | 1.90 | 2.60 | 6.10 | 1.40 |
| Cyanide (Total) (as CN) | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 6.90 | <1 | <1 | <1 | <1 | 230.00 | 5.80 |
| Complexed cyanide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 6.90 | <1 | <1 | <1 | <1 | 230.00 | 5.80 |
| Easily liberatable cyanide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | 6.80 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloride | 92.00 | 8.00 | 7.90 | 130.00 | 19.00 | 39.00 | 36.00 | 39.00 | 40.00 | 20.00 | 17.00 | 24.00 | 19.00 | 24.00 | 8.80 | 10.00 | 640.00 | 37.00 |
| Sulphur (Elemental) | 7.50 | <5 | <5 | 290.00 | 100.00 | 150.00 | 180.00 | 11.00 | 110.00 | 130.00 | 7.10 | 60.00 | 11.00 | 23.00 | 23.00 | 26.00 | 3200.00 | 16.00 |
| Catechol | <0.1 | <0.1 | <0.1 | <0.1 | 0.39 | <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 |
| Resorcinol | <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 |
| Cresols (Total) | <0.3 | <0.3 | <0.3 | 2.30 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | <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 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | <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 |
| Phenol | <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 |
| Trimethylphenol (2,3,5-) | <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 |
| Phenols (Total) | <1.4 | <1.4 | <1.4 | 7.30 | 4.10 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | <0.4 | <0.4 | <0.4 | 5.00 | 3.70 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | 0.22 | <0.05 | <0.05 | **98.00** | **380.00** | 3.50 | 1.80 | 0.26 | <0.05 | 5.30 | 3.70 | 0.49 | 0.39 | <0.05 | <0.05 | <0.05 | 10.00 | 1.50 |
| Acenaphthylene | 0.060 | <0.05 | <0.05 | 11.00 | 0.47 | <0.05 | <0.05 | <0.05 | <0.05 | 0.10 | 1.10 | <0.05 | 0.080 | <0.05 | <0.05 | <0.05 | 5.60 | 0.38 |
| Acenaphthene | <0.05 | <0.05 | <0.05 | 7.00 | 3.30 | 0.17 | 0.060 | <0.05 | <0.05 | 0.40 | 0.28 | 0.10 | 0.060 | <0.05 | <0.05 | <0.05 | 3.00 | 0.16 |
| Fluorene | 0.080 | <0.05 | <0.05 | 6.90 | 0.54 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | 1.0 | 0.060 | 0.070 | <0.05 | <0.05 | <0.05 | 7.60 | 0.29 |
| Phenanthrene | 0.20 | <0.05 | <0.05 | 17.00 | 2.20 | 0.10 | <0.05 | 0.12 | <0.05 | 0.81 | 5.10 | 0.53 | 0.28 | <0.05 | <0.05 | <0.05 | 12.00 | 2.00 |
| Anthracene | <0.05 | <0.05 | <0.05 | 3.20 | 0.54 | <0.05 | <0.05 | <0.05 | <0.05 | 0.14 | 1.20 | 0.15 | 0.060 | <0.05 | <0.05 | <0.05 | 5.40 | 0.57 |
| Fluoranthene | 0.070 | <0.05 | <0.05 | 15.00 | 1.20 | <0.05 | <0.05 | 0.10 | <0.05 | 0.20 | 4.10 | 0.63 | 0.12 | <0.05 | <0.05 | <0.05 | 19.00 | 2.80 |
| Pyrene | 0.070 | <0.05 | <0.05 | 11.00 | 1.10 | <0.05 | <0.05 | 0.090 | <0.05 | 0.31 | 3.40 | 0.49 | 0.15 | <0.05 | <0.05 | <0.05 | 17.00 | 2.30 |
| Benzo[a]anthracene | <0.05 | <0.05 | <0.05 | 3.00 | 0.53 | <0.05 | <0.05 | 0.060 | <0.05 | 0.12 | 1.70 | 0.28 | 0.060 | <0.05 | <0.05 | <0.05 | 8.10 | 1.0 |
| Chrysene | <0.05 | <0.05 | <0.05 | 2.30 | 0.57 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | 1.70 | 0.33 | 0.090 | <0.05 | <0.05 | <0.05 | 8.00 | 1.0 |
| Benzo[b]fluoranthene | <0.05 | <0.05 | <0.05 | 1.80 | 0.44 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 2.20 | 0.32 | <0.05 | <0.05 | <0.05 | <0.05 | 13.00 | 1.10 |
| Benzo[k]fluoranthene | <0.05 | <0.05 | <0.05 | 0.69 | 0.19 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.0 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | 5.20 | 0.47 |
| Benzo[a]pyrene | <0.05 | <0.05 | <0.05 | 1.40 | 0.32 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 2.20 | 0.33 | <0.05 | <0.05 | <0.05 | <0.05 | 12.00 | 0.86 |
| Indeno[1,2,3-cd]pyrene | <0.05 | <0.05 | <0.05 | 0.59 | 0.14 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.10 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | 6.50 | 0.40 |
| Dibenz(a,h)anthracene | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.40 | <0.05 |
| Benzo[ghi]perylene | <0.05 | <0.05 | <0.05 | 0.64 | 0.20 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.20 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | 6.30 | 0.45 |
| PAH 16 Total | <0.8 | <0.8 | <0.8 | 179.00 | 395.00 | 3.73 | 1.84 | <0.8 | <0.8 | 7.78 | 31.10 | 4.30 | 1.38 | <0.8 | <0.8 | <0.8 | 140.00 | 15.20 |
| Arsenic | 3.30 | 1.20 | 1.10 | 7.10 | 2.90 | 2.80 | 2.70 | 11.00 | 6.70 | 2.40 | 32.00 | 12.00 | 14.00 | 6.90 | 3.70 | 3.60 | 13.00 | 8.90 |
| Boron | 0.80 | 0.40 | 0.40 | 1.10 | 3.30 | 0.70 | 0.60 | 1.60 | 1.40 | 0.60 | 5.00 | 1.50 | 1.70 | 1.60 | 1.0 | 1.10 | 2.20 | 1.20 |
| Cadmium | <0.2 | <0.2 | <0.2 | <0.2 | 0.90 | <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 |
| Chromium (VI) | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | 1.60 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | | | | | | | | | | | | | | | | | | |
| Chromium (Total) | 9.80 | 2.10 | 1.90 | 17.00 | 10.00 | 8.50 | 8.50 | 39.00 | 15.00 | 6.80 | 25.00 | 31.00 | 28.00 | 27.00 | 7.50 | 7.10 | 30.00 | 11.00 |
| Copper | 9.80 | 4.50 | 3.70 | 18.00 | 24.00 | 8.60 | 38.00 | 48.00 | 39.00 | 37.00 | 38.00 | 62.00 | 44.00 | 19.00 | 11.00 | 8.10 | 82.00 | 49.00 |
| Lead | 6.60 | 1.80 | 1.70 | 11.00 | 14.00 | 5.60 | 4.90 | 35.00 | 9.40 | 4.50 | 33.00 | 160.00 | 15.00 | 11.00 | 4.60 | 5.90 | 120.00 | 9.80 |
| Mercury (inorganic) | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 0.40 |
| Nickel | 8.70 | 2.30 | 2.20 | 18.00 | 11.00 | 8.90 | 9.00 | 32.00 | 12.00 | 7.20 | 25.00 | 21.00 | 26.00 | 26.00 | 8.50 | 9.00 | 26.00 | 16.00 |
| Selenium | <1 | <1 | <1 | <1 | 4.60 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.0 | <1 | <1 | <1 | <1 | <1 |
| Zinc | 31.00 | 9.80 | 9.60 | 54.00 | 35.00 | 26.00 | 36.00 | 74.00 | 46.00 | 33.00 | 72.00 | 110.00 | 62.00 | 57.00 | 25.00 | 26.00 | 76.00 | 43.00 |
| Benzene | <0.005 | <0.005 | <0.005 | **0.60** | **6.30** | 0.026 | 0.19 | 0.078 | <0.005 | **2.90** | 0.0082 | 0.0080 | <0.005 | <0.005 | 0.024 | 0.034 | **0.89** | <0.005 |
| Toluene | <0.005 | <0.005 | <0.005 | 0.66 | 0.41 | <0.005 | <0.005 | <0.005 | <0.005 | 0.064 | <0.005 | 0.0080 | <0.005 | <0.005 | <0.005 | <0.005 | 0.22 | <0.005 |
| Ethylbenzene | <0.005 | <0.005 | <0.005 | 2.20 | 9.20 | 0.065 | 0.094 | <0.005 | <0.005 | 0.50 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 6.30 | <0.005 |
| Xylene (p & m-Xylene) | <0.008 | <0.008 | <0.008 | 10.00 | 8.50 | 0.033 | 0.045 | <0.008 | <0.008 | 0.41 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 |
| Xylene (o-Xylene) | <0.005 | <0.005 | <0.005 | 4.80 | 8.20 | 0.051 | 0.089 | <0.005 | <0.005 | 0.74 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.46 | <0.005 |
| Methyl tert-butyl ether | | | | <0.005 | <0.005 | | | | <0.005 | <0.005 | <0.005 | <0.005 | | | | | <0.005 | <0.005 |
| TPH (C10 - C40) | <10 | <10 | <10 | | | 12.00 | <10 | <10 | | | 38.00 | | <10 | <10 | <10 | <10 | | |
| Aliphatic C5 - C6 | | | | 0.027 | <0.01 | | | | <0.01 | <0.01 | | <0.01 | | | | | 0.37 | <0.01 |
| Aliphatic C6 - C8 | | | | 0.67 | <0.01 | | | | <0.01 | <0.01 | | <0.01 | | | | | 1.10 | <0.01 |
| Aliphatic C8 – C10 | | | | 22.00 | 0.19 | | | | <0.01 | <0.01 | | <0.01 | | | | | 0.73 | <0.01 |
| Aliphatic C10 – C12 | | | | 20.00 | <1 | | | | <1 | <1 | | <1 | | | | | 80.00 | <1 |
| Aliphatic C12 – C16 | | | | 51.00 | 14.00 | | | | <2 | 4.10 | | 3.40 | | | | | 740.00 | <2 |
| Aliphatic C16 – C21 | | | | 8.70 | 8.60 | | | | <8 | <8 | | 11.00 | | | | | 1000.00 | <8 |
| Aliphatic C21 – C35 | | | | 48.00 | <8 | | | | <8 | <8 | | 38.00 | | | | | 220.00 | <8 |
| Aliphatic C5 – C35 | | | | 150.00 | 22.00 | | | | <10 | <10 | | 52.00 | | | | | 2100.00 | <10 |
| Aromatic C5 - C7 | | | | 0.60 | 6.20 | | | | <0.01 | 2.80 | | <0.01 | | | | | 1.10 | <0.01 |
| Aromatic C7 - C8 | | | | 0.77 | 0.51 | | | | <0.01 | 0.094 | | <0.01 | | | | | 0.95 | <0.01 |
| Aromatic C8 – C10 | | | | 23.00 | 29.00 | | | | <0.02 | 1.90 | | <0.02 | | | | | 13.00 | <0.02 |
| Aromatic C10 – C12 | | | | 120.00 | 33.00 | | | | <1 | 1.80 | | <1 | | | | | 67.00 | <1 |
| Aromatic C12 – C16 | | | | 120.00 | 6.90 | | | | <2 | 5.00 | | <2 | | | | | 450.00 | 2.80 |
| Aromatic C16 – C21 | | | | 89.00 | <10 | | | | <10 | <10 | | <10 | | | | | 650.00 | <10 |
| Aromatic C21 – C35 | | | | 56.00 | <10 | | | | <10 | <10 | | 11.00 | | | | | 260.00 | <10 |
| Aromatic C5 – C35 | | | | 400.00 | 75.00 | | | | <10 | 12.00 | | 11.00 | | | | | 1400.00 | <10 |
| Chloromethane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Chloroethane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Bromomethane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Vinyl chloride (Chloroethene) | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Trichlorofluoromethane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,1-Dichloroethene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Trans 1,2 Dichloroethene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,1-Dichloroethane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 2,2-Dichloropropane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Trichloromethane (Chloroform) | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,1,1-Trichloroethane (TCA) | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,2-Dichloroethane | | | | <0.007 | | | | | | | <0.007 | | | | | | <0.007 | |
| 1,1-Dichloropropene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Cis 1,2 Dichloroethene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Carbon tetrachloride (Tetrachloromethane) | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,2-Dichloropropane | | | | <0.006 | | | | | | | <0.006 | | | | | | <0.006 | |
| Trichloroethylene | | | | <0.01 | | | | | | | <0.01 | | | | | | <0.01 | |
| Dibromomethane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Bromodichloromethane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Cis-1,3-dichloropropene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Trans-1,3-dichloropropene | | | | <0.01 | | | | | | | <0.01 | | | | | | <0.01 | |
| 1,1,2 Trichloroethane | | | | <0.006 | | | | | | | <0.006 | | | | | | <0.006 | |
| 1,3-Dichloropropane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Dibromochloromethane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Tetrachloroethylene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,2-Dibromoethane | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| ChloroBenzene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Styrene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Bromoform | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Iso-propylbenzene | | | | 0.25 | | | | | | | <0.005 | | | | | | 1.10 | |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Bromobenzene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| n-Propylbenzene | | | | 0.62 | | | | | | | <0.005 | | | | | | 2.10 | |
| 2-Chlorotoluene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 4-Chlorotoluene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,3,5-Trimethylbenzene | | | | 6.40 | | | | | | | <0.005 | | | | | | <0.005 | |
| tert-Butylbenzene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,2,4-Trimethylbenzene | | | | **11.00** | | | | | | | <0.005 | | | | | | **1.90** | |
| sec-Butylbenzene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,3-dichlorobenzene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| p-Isopropyltoluene | | | | 0.44 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,4-dichlorobenzene | | | | <0.005 | | | | | | | <0.005 | | | | | | | |
| 1,2-dichlorobenzene | | | | | | | | | | | <0.005 | | | | | | <0.005 | |
| Butylbenzene | | | | 0.36 | | | | | | | <0.005 | | | | | | 0.79 | |
| 1,2-Dibromo-3-chloropropane | | | | <0.008 | | | | | | | <0.008 | | | | | | <0.008 | |
| 1,2,4-trichlorobenzene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Hexachlorobutadiene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| 1,2,3-trichlorobenzene | | | | <0.005 | | | | | | | <0.005 | | | | | | <0.005 | |
| Aniline | | | | | | | | | | | | | | | | | 0.40 | |
| Phenol | | | | | | | | | | | | | | | | | <0.2 | |
| 2-chlorophenol | | | | | | | | | | | | | | | | | <0.1 | |
| Bis(2-chloroethyl)ether | | | | | | | | | | | | | | | | | <0.2 | |
| 1,3-dichlorobenzene | | | | | | | | | | | | | | | | | <0.2 | |
| 1,2-dichlorobenzene | | | | | | | | | | | | | | | | | <0.1 | |
| 1,4-dichlorobenzene | | | | | | | | | | | | | | | | | <0.2 | |
| Bis(2-chloroisopropyl)ether | | | | | | | | | | | | | | | | | <0.1 | |
| 2-Methylphenol | | | | | | | | | | | | | | | | | <0.3 | |
| Hexachloroethane | | | | | | | | | | | | | | | | | <0.05 | |
| Nitrobenzene | | | | | | | | | | | | | | | | | <0.3 | |
| 4-Methylphenol | | | | | | | | | | | | | | | | | <0.2 | |
| Isophorone | | | | | | | | | | | | | | | | | <0.2 | |
| 2-Nitrophenol | | | | | | | | | | | | | | | | | <0.3 | |
| 2,4-Dimethylphenol | | | | | | | | | | | | | | | | | 0.50 | |
| Bis(2-chloroethoxy)methane | | | | | | | | | | | | | | | | | <0.3 | |
| 1,2,4-trichlorobenzene | | | | | | | | | | | | | | | | | <0.3 | |
| 2,4-Dichlorophenol | | | | | | | | | | | | | | | | | <0.3 | |
| 4-Chloroaniline | | | | | | | | | | | | | | | | | <0.1 | |
| Hexachlorobutadiene | | | | | | | | | | | | | | | | | <0.1 | |
| 4-Chloro-3-methylphenol | | | | | | | | | | | | | | | | | <0.1 | |
| 2,4,6-Trichlorophenol | | | | | | | | | | | | | | | | | <0.1 | |
| 2,4,5-Trichlorophenol | | | | | | | | | | | | | | | | | <0.2 | |
| 2-Methylnaphthalene | | | | | | | | | | | | | | | | | 1.0 | |
| 2-Chloronaphthalene | | | | | | | | | | | | | | | | | <0.1 | |
| Dimethylphthalate | | | | | | | | | | | | | | | | | <0.1 | |
| 2,6-Dinitrotoluene | | | | | | | | | | | | | | | | | <0.1 | |
| 2,4-Dinitrotoluene | | | | | | | | | | | | | | | | | <0.2 | |
| Dibenzofuran | | | | | | | | | | | | | | | | | 5.40 | |
| 4-Chlorophenyl phenyl ether | | | | | | | | | | | | | | | | | <0.3 | |
| Diethyl phthalate | | | | | | | | | | | | | | | | | <0.2 | |
| 4-Nitroaniline | | | | | | | | | | | | | | | | | <0.2 | |
| Azobenzene | | | | | | | | | | | | | | | | | <0.3 | |
| Bromophenyl phenyl ether | | | | | | | | | | | | | | | | | <0.2 | |
| Hexachlorobenzene | | | | | | | | | | | | | | | | | <0.3 | |
| Carbazole | | | | | | | | | | | | | | | | | 1.30 | |
| Dibutyl phthalate | | | | | | | | | | | | | | | | | <0.2 | |
| Anthraquinone | | | | | | | | | | | | | | | | | <0.3 | |
| Butyl benzyl phthalate | | | | | | | | | | | | | | | | | <0.3 | |

MGR = Made Ground
BC = Boulder Clay
WS&G = Wolston Sand and Gravel
WCM = Wolston Clay Member

## Table B: Soil Analytical Data (>0.8 m bgl) (volatiles) - Area B

NUMBER OF SAMPLES: 123

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Residential (with veg uptake C4SL) | No. Analyses | CRITERIA 1 Exceedances | Min | Mean | Max | Max ID | MW25-34 | MW25-34 | TP25-18 | TP25-18 | MW25-15C | MW25-15C | MW25-15C-DUP | VW25-17 | VW25-19A | MW25-19A | MW25-19A | MW25-19A | MW25-19A- | MW25-24 | MW25-24 | MW25-24-DUP | VW25-13 | MW25-05A | MW25-05A | MW25-08 | MW25-08 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | | | | | | | | | | Tank | Tank | Chimney | Chimney | Former feature | Former feature | Former feature | Former feature | Former feature | - | - | - | - | - | - | - | - | - | - | - | - |
| Depth (m bgl) | | | | | | | | | | 5.40 | 8.10 | 1.20 | 2.50 | 7.65 | 8.80 | 8.80 | 1.00 | 0.85 | 1.30 | 4.50 | 7.00 | 4.50 | 1.50 | 6.20 | 6.20 | 1.35 | 1.50 | 3.40 | 1.00 | 2.70 |
| Date Sampled | | | | | | | | | | 26/02/2025 | 26/02/2025 | 11/02/2025 | 11/02/2025 | 25/02/2025 | 25/02/2025 | 25/02/2025 | 18/02/2025 | 19/02/2025 | 14/02/2025 | 14/02/2025 | 14/02/2025 | 14/02/2025 | 18/02/2025 | 18/02/2025 | 18/02/2025 | 13/02/2025 | 05/02/2025 | 05/02/2025 | 06/02/2025 | 06/02/2025 |
| Stratum | | | | | | | | | | WS&G | WS&G | MGR | MGR | WS&G | WS&G | WS&G | MGR | MGR | MGR | WS&G | WCM | WS&G | WS&G | WS&G | WS&G | MGR | MGR | WS&G | MGR | WCM |
| Stone Content | % | 0.1 | | 122 | | <0.1 | <8.1 | 68.2 | TP25-21 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 3.90 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 30.40 | <0.1 |
| Moisture Content | % | 0.01 | | 122 | | <0.01 | <15.7 | 41 | MW25-04A | 15.00 | 14.00 | 14.00 | 15.00 | 15.00 | 15.00 | 16.00 | 15.00 | 15.00 | 16.00 | 15.00 | 17.00 | 15.00 | 8.40 | 15.00 | 16.00 | 13.00 | 21.00 | 22.00 | 12.00 | 25.00 |
| Total mass of sample received | kg | 0.1 | | 122 | | 0.1 | 0.6 | 0.8 | TP25-19 | 0.50 | 0.60 | 0.70 | 0.80 | 0.50 | 0.60 | 0.50 | 0.60 | 0.40 | 0.60 | 0.60 | 0.60 | 0.60 | 0.50 | 0.50 | 0.10 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Asbestos in Soil | Detect | N/A | | 9 | | 0 | 0 | <0 | n/a | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Asbestos in Soil Screen / Identification Name | Type | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asbestos Quantification Total | % | 0.001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH | pH Units | N/A | | 122 | | 4.2 | 8.3 | 11.8 | MW25-22 | 8.80 | 8.10 | 10.30 | 7.40 | 8.70 | 8.40 | 8.80 | 8.40 | 7.40 | 8.10 | 8.00 | 8.60 | 7.90 | 7.50 | 8.50 | 8.10 | 7.90 | 7.40 | 8.50 | 7.70 | 7.30 |
| Water Soluble SO4 16hr extraction (2:1) | mg.kg$^{-1}$ | 2.5 | | 122 | | 21 | 1069.4 | 6900 | TP25-20 | 250.00 | 100.00 | 2800.00 | 420.00 | 64.00 | 75.00 | 81.00 | 270.00 | 720.00 | 280.00 | 160.00 | 340.00 | 160.00 | 89.00 | 37.00 | 91.00 | 2900.00 | 4200.00 | 190.00 | 3900.00 | 370.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg.L$^{-1}$ | 1.25 | | 122 | | 10.6 | 534.55 | 3460 | TP25-20 | 124.00 | 52.00 | 1420.00 | 210.00 | 32.20 | 37.60 | 40.50 | 133.00 | 361.00 | 142.00 | 78.10 | 170.00 | 78.60 | 44.60 | 18.60 | 45.50 | 1460.00 | 2090.00 | 94.40 | 1940.00 | 186.00 |
| Sulphide | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <59.7 | 1000 | MW25-25 | 59.00 | 14.00 | 4.60 | 29.00 | 4.90 | 18.00 | 11.00 | 2.90 | 2.40 | 30.00 | <1 | 91.00 | <1 | <1 | 7.10 | 130.00 | 1.80 | 110.00 | 9.10 | 83.00 | 20.00 |
| Ammonium as NH4 | mg.kg$^{-1}$ | 0.5 | | 122 | | <0.5 | <41.3 | 430 | MW25-16A | 2.30 | 12.00 | <0.5 | 12.00 | 8.00 | 10.00 | 11.00 | 130.00 | <0.5 | <0.5 | <0.5 | 4.60 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 47.00 | 24.00 | 77.00 | 57.00 |
| Organic Matter (automated) | % | 0.1 | | 122 | | <0.1 | <1.8 | 18 | MW25-04A | 0.50 | 0.60 | 1.20 | 2.60 | 0.10 | <0.1 | <0.1 | 0.40 | 0.80 | 2.00 | 0.30 | 1.30 | 0.30 | 0.30 | <0.1 | <0.1 | 2.40 | 6.70 | 1.0 | 2.70 | 3.20 |
| Fraction Organic Carbon (FOC) | N/A | 0.001 | | 22 | | <0.001 | <0.008 | 0.021 | MW25-09C | | | | | | | | | | | 0.0019 | | | | <0.001 | | | | 0.0056 | | 0.019 |
| Total Organic Carbon (TOC) | % | 0.1 | | 10 | | <0.1 | <1.2 | 2.7 | VW25-18 | | | | | | | | | 0.50 | | | | | | | | 1.40 | | | | |
| Loss on Ignition | % | 0.2 | | 122 | | <0.2 | <2.8 | 23 | MW25-04A | <0.2 | 0.60 | 2.10 | 2.70 | 0.40 | 0.40 | 0.40 | 2.90 | 1.90 | 3.90 | 0.80 | 2.10 | 0.90 | 1.40 | 0.50 | 0.30 | 3.20 | 11.00 | 1.50 | 4.50 | 5.90 |
| Cyanide (Total) (as CN) | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <37.7 | 1200 | MW25-14 | <1 | 1.50 | <1 | 4.80 | <1 | <1 | <1 | <1 | <1 | 3.00 | <1 | <1 | <1 | <1 | <1 | <1 | 3.20 | 100.00 | <1 | 150.00 | <1 |
| Complexed cyanide | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <37.4 | 1200 | MW25-14 | <1 | 1.50 | <1 | 4.80 | <1 | <1 | <1 | <1 | <1 | 3.00 | <1 | <1 | <1 | <1 | <1 | <1 | 3.20 | 100.00 | <1 | 140.00 | <1 |
| Easily liberatable cyanide | mg.kg$^{-1}$ | 1 | 1.44 | 122 | 8 | <1 | <1.3 | 12 | TP25-20 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.0 | <1 | **2.60** | <1 |
| Thiocyanate | mg.kg$^{-1}$ | 5 | | 122 | | <5 | <5.6 | 57 | TP25-20 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 5.10 |
| Chloride | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <90.3 | 1100 | TP25-20 | 36.00 | 21.00 | 24.00 | 36.00 | 12.00 | 7.10 | 7.70 | 160.00 | 2.50 | 87.00 | 42.00 | 52.00 | 42.00 | 150.00 | 25.00 | 22.00 | 8.70 | 470.00 | 54.00 | 470.00 | 93.00 |
| Sulphur (Elemental) | mg.kg$^{-1}$ | 5 | | 122 | | <5 | <334 | 5100 | TP25-20 | 160.00 | 340.00 | 14.00 | 820.00 | 49.00 | 18.00 | 17.00 | 8.40 | 7.70 | 14.00 | 6.80 | 9.70 | 6.90 | <5 | <5 | <5 | <5 | 2400.00 | 33.00 | 1200.00 | 290.00 |
| Catechol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | 0.39 | MW25-27 | <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 | <0.1 | <0.1 |
| Resorcinol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | <0.1 | n/a | <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 | <0.1 | <0.1 |
| Cresols (Total) | mg.kg$^{-1}$ | 0.3 | | 122 | | <0.3 | <0.8 | 54 | MW25-25 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | mg.kg$^{-1}$ | 0.2 | | 122 | | <0.2 | <0.3 | 16 | MW25-25 | <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 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | <0.1 | n/a | <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 | <0.1 | <0.1 |
| Phenol | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | 0.95 | MW25-25 | <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 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | mg.kg$^{-1}$ | 0.1 | | 122 | | <0.1 | <0.1 | <0.1 | n/a | <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 | <0.1 | <0.1 |
| Phenols (Total) | mg.kg$^{-1}$ | 1.4 | | 122 | | <1.4 | <3.7 | 240 | MW25-25 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | mg.kg$^{-1}$ | 0.4 | | 122 | | <0.4 | <2.1 | 170 | MW25-25 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | mg.kg$^{-1}$ | 0.05 | 15 | 122 | 22 | <0.05 | <48.73 | 2400 | MW25-25 | <0.05 | **22.00** | 0.41 | **33.00** | <0.05 | <0.05 | <0.05 | 0.93 | 0.060 | 0.17 | <0.05 | <0.05 | <0.05 | 0.090 | 0.070 | <0.05 | 1.70 | **27.00** | <0.05 | 0.76 | <0.05 |
| Acenaphthylene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <10.78 | 760 | MW25-25 | <0.05 | 7.40 | 0.17 | 21.00 | <0.05 | <0.05 | <0.05 | 0.070 | 0.15 | 0.19 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.60 | 1.10 | <0.05 | 0.28 | <0.05 |
| Acenaphthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.22 | 140 | MW25-25 | <0.05 | 0.82 | 0.070 | 83.00 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.090 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.40 | 1.10 | <0.05 | 0.56 | <0.05 |
| Fluorene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <9.72 | 650 | MW25-25 | <0.05 | 8.80 | 0.080 | 62.00 | <0.05 | <0.05 | <0.05 | <0.05 | 0.10 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.97 | 2.00 | <0.05 | 0.89 | <0.05 |
| Phenanthrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <30.02 | 1900 | MW25-25 | <0.05 | 10.00 | 2.00 | 160.00 | <0.05 | <0.05 | <0.05 | 0.080 | 1.60 | 2.10 | 0.050 | <0.05 | <0.05 | <0.05 | <0.05 | 0.16 | 12.00 | 8.90 | <0.05 | 5.60 | 0.14 |
| Anthracene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <9.4 | 650 | MW25-25 | <0.05 | 3.50 | 0.38 | 45.00 | <0.05 | <0.05 | <0.05 | <0.05 | 0.55 | 0.60 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | 3.40 | 2.90 | <0.05 | 1.50 | <0.05 |
| Fluoranthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <20.66 | 1200 | MW25-25 | <0.05 | 2.10 | 3.50 | 38.00 | <0.05 | <0.05 | <0.05 | 0.060 | 3.50 | 4.50 | 0.080 | <0.05 | 0.080 | <0.05 | <0.05 | 0.22 | 32.00 | 12.00 | <0.05 | 9.00 | 0.26 |
| Pyrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <17.18 | 940 | MW25-25 | <0.05 | 3.40 | 3.00 | 56.00 | <0.05 | <0.05 | <0.05 | <0.05 | 3.00 | 3.90 | 0.070 | <0.05 | 0.060 | <0.05 | <0.05 | 0.17 | 28.00 | 11.00 | <0.05 | 7.70 | 0.23 |
| Benzo[a]anthracene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.93 | 450 | MW25-25 | <0.05 | 1.0 | 1.50 | 15.00 | <0.05 | <0.05 | <0.05 | <0.05 | 1.70 | 2.60 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.18 | 19.00 | 5.50 | <0.05 | 4.00 | 0.11 |
| Chrysene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.06 | 390 | MW25-25 | <0.05 | 1.10 | 2.00 | 14.00 | <0.05 | <0.05 | <0.05 | <0.05 | 1.60 | 2.40 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.14 | 17.00 | 5.40 | <0.05 | 4.30 | 0.17 |
| Benzo[b]fluoranthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.69 | 410 | MW25-25 | <0.05 | 0.47 | 1.60 | 6.60 | <0.05 | <0.05 | <0.05 | <0.05 | 1.80 | 3.20 | 0.070 | <0.05 | <0.05 | <0.05 | <0.05 | 0.13 | 23.00 | 7.00 | <0.05 | 5.10 | 0.19 |
| Benzo[k]fluoranthene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.2 | 170 | MW25-25 | <0.05 | 0.14 | 0.69 | 2.70 | <0.05 | <0.05 | <0.05 | <0.05 | 0.76 | 1.40 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 9.40 | 3.20 | <0.05 | 2.10 | 0.090 |
| Benzo[a]pyrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <7.27 | 390 | MW25-25 | <0.05 | 0.49 | 1.10 | 8.00 | <0.05 | <0.05 | <0.05 | <0.05 | 1.60 | 2.70 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.080 | 20.00 | 6.10 | <0.05 | 4.20 | 0.14 |
| Indeno[1,2,3-cd]pyrene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.18 | 150 | MW25-25 | <0.05 | 0.15 | 0.58 | 2.20 | <0.05 | <0.05 | <0.05 | <0.05 | 0.79 | 1.50 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 9.00 | 2.90 | <0.05 | 2.00 | 0.060 |
| Dibenz(a,h)anthracene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <0.72 | 35 | MW25-25 | <0.05 | <0.05 | 0.16 | 0.67 | <0.05 | <0.05 | <0.05 | <0.05 | 0.16 | 0.38 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 2.70 | 0.63 | <0.05 | 0.54 | <0.05 |
| Benzo[ghi]perylene | mg.kg$^{-1}$ | 0.05 | | 122 | | <0.05 | <3.36 | 160 | MW25-25 | <0.05 | 0.17 | 0.67 | 2.50 | <0.05 | <0.05 | <0.05 | <0.05 | 0.73 | 1.50 | 0.060 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 9.10 | 3.10 | <0.05 | 2.20 | 0.070 |
| PAH 16 Total | mg.kg$^{-1}$ | 0.8 | | 122 | | <0.8 | <190 | 10800 | MW25-25 | <0.8 | 61.90 | 17.80 | 551.00 | <0.8 | <0.8 | <0.8 | 1.14 | 18.00 | 27.40 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | 1.20 | 190.00 | 100.00 | <0.8 | 50.80 | 1.47 |
| Arsenic | mg.kg$^{-1}$ | 1 | | 122 | | 1.1 | 14.4 | 130 | MW25-04A | 4.40 | 2.20 | 84.00 | 7.60 | 3.20 | 2.20 | 2.30 | 12.00 | 8.60 | 11.00 | 2.90 | 7.50 | 2.60 | 4.70 | 4.00 | 3.90 | 22.00 | 83.00 | 5.00 | 21.00 | 23.00 |
| Boron | mg.kg$^{-1}$ | 0.2 | | 122 | | 0.4 | 1.8 | 12 | TP25-18 | 0.50 | 0.50 | 12.00 | 1.20 | 0.60 | 0.70 | 0.60 | 1.30 | 2.10 | 1.50 | 0.80 | 0.80 | 0.80 | 1.10 | 0.60 | 0.80 | 2.40 | 3.90 | 0.70 | 3.40 | 1.60 |
| Cadmium | mg.kg$^{-1}$ | 0.2 | | 122 | | <0.2 | <0.2 | 1.4 | TP25-22 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.20 | <0.2 | <0.2 | <0.2 | <0.2 | 0.20 | 0.20 | <0.2 | <0.2 | 0.20 | <0.2 | <0.2 |
| Chromium (VI) | mg.kg$^{-1}$ | 1.2 | | 122 | | <1.2 | <1.2 | 1.6 | MW25-31A | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | mg.kg$^{-1}$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chromium (Total) | mg.kg$^{-1}$ | 1 | | 122 | | 1.9 | 26.5 | 690 | TP25-10 | 5.70 | 8.70 | 49.00 | 16.00 | 5.00 | 6.10 | 6.80 | 36.00 | 22.00 | 25.00 | 7.20 | 26.00 | 7.80 | 14.00 | 7.40 | 5.90 | 37.00 | 24.00 | 16.00 | 20.00 | 29.00 |
| Copper | mg.kg$^{-1}$ | 1 | | 122 | | 3.7 | 29.2 | 110 | TP25-19 | 9.10 | 6.40 | 69.00 | 18.00 | 6.20 | 8.10 | 9.40 | 20.00 | 21.00 | 50.00 | 8.90 | 15.00 | 8.90 | 11.00 | 8.80 | 9.90 | 41.00 | 89.00 | 25.00 | 43.00 | 23.00 |
| Lead | mg.kg$^{-1}$ | 1 | | 122 | | 1.7 | 104.8 | 5400 | MW25-19A | 6.00 | 6.30 | 89.00 | 45.00 | 5.00 | 5.10 | 4.10 | 13.00 | 25.00 | 5400.00 | 9.20 | 10.00 | 6.40 | 8.00 | 5.10 | 4.90 | 110.00 | 520.00 | 11.00 | 91.00 | 34.00 |
| Mercury (inorganic) | mg.kg$^{-1}$ | 0.3 | | 122 | | <0.3 | <1.1 | 55 | MW25-33 | <0.3 | <0.3 | 0.30 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 0.30 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel | mg.kg$^{-1}$ | 1 | | 122 | | 2.2 | 20 | 68 | MW25-36 | 6.50 | 9.60 | 54.00 | 15.00 | 7.30 | 7.00 | 7.70 | 30.00 | 21.00 | 25.00 | 7.60 | 24.00 | 7.70 | 10.00 | 8.00 | 7.60 | 29.00 | 57.00 | 18.00 | 24.00 | 25.00 |
| Selenium | mg.kg$^{-1}$ | 1 | | 122 | | <1 | <1.4 | 24 | MW25-04A | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 5.40 | 3.90 | <1 | <1 |
| Zinc | mg.kg$^{-1}$ | 1 | | 122 | | 9.6 | 77 | 610 | MW25-35 | 25.00 | 28.00 | 120.00 | 47.00 | 26.00 | 23.00 | 24.00 | 60.00 | 54.00 | 49.00 | 25.00 | 47.00 | 25.00 | 36.00 | 35.00 | 34.00 | 70.00 | 130.00 | 53.00 | 91.00 | 100.00 |
| Benzene | mg.kg$^{-1}$ | 0.005 | 0.202927877 | 107 | 25 | <0.005 | <1.608 | 46 | MW25-25 | <0.005 | **0.25** | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.011 | <0.005 | <0.005 | <0.005 | 0.014 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | **0.25** | <0.005 | 0.0070 | <0.005 |
| Toluene | mg.kg$^{-1}$ | 0.005 | 130 | 107 | 0 | <0.005 | <1.854 | 42 | MW25-25 | <0.005 | 3.50 | <0.005 | 0.066 | <0.005 | <0.005 | <0.005 | 0.025 | <0.005 | <0.005 | <0.005 | 0.0090 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.30 | <0.005 | <0.005 | <0.005 |
| Ethylbenzene | mg.kg$^{-1}$ | 0.005 | 47 | 107 | 0 | <0.005 | <1.736 | 37 | MW25-20 | <0.005 | 3.40 | <0.005 | 0.19 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 1.20 | <0.005 | <0.005 | <0.005 |
| Xylene (p & m-Xylene) | mg.kg$^{-1}$ | 0.008 | | 107 | | <0.008 | <3.699 | 100 | MW25-20 | <0.008 | 3.20 | <0.008 | 0.19 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | 0.64 | <0.008 | <0.008 | <0.008 |
| Xylene (o-Xylene) | mg.kg$^{-1}$ | 0.005 | 60 | 107 | 1 | <0.005 | <2.377 | 67 | MW25-20 | <0.005 | 1.70 | <0.005 | 0.27 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.86 | <0.005 | <0.005 | <0.005 |
| Methyl tert-butyl ether | mg.kg$^{-1}$ | 0.005 | | 49 | | <0.005 | <0.005 | <0.005 | n/a | <0.005 | <0.005 | | | <0.005 | | | | <0.005 | | | | | | | | <0.005 | <0.005 | | <0.005 | |
| TPH (C10 - C40) | mg.kg$^{-1}$ | 10 | | 74 | | <10 | <83.4 | 1,200 | MW25-35 | | | | | | <10 | <10 | <10 | 15.00 | 43.00 | 20.00 | <10 | 25.00 | <10 | <10 | <10 | 420.00 | | <10 | | <10 |
| Aliphatic C5 - C6 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <0.03 | 0 | VW25-18 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | | | | | | | | | | | <0.01 | <0.01 | | <0.01 | |
| Aliphatic C6 - C8 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <0.75 | 28 | MW25-20 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | | | | | | | | | | | <0.01 | 0.40 | | <0.01 | |
| Aliphatic C8 – C10 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <4.16 | 120 | MW25-20 | <0.01 | <0.01 | <0.01 | 0.16 | <0.01 | | | | | | | | | | | | <0.01 | 4.20 | | <0.01 | |
| Aliphatic C10 – C12 | mg.kg$^{-1}$ | 1 | | 53 | | <1 | <18.1 | 220 | MW25-20 | <1 | <1 | <1 | 4.80 | <1 | | | | | | | | | | | | <1 | 21.00 | | 2.40 | |
| Aliphatic C12 – C16 | mg.kg$^{-1}$ | 2 | | 53 | | <2 | <78.7 | 960 | MW25-20 | <2 | 6.60 | <2 | 65.00 | <2 | | | | | | | | | | | | 5.10 | 65.00 | | 7.70 | |
| Aliphatic C16 – C21 | mg.kg$^{-1}$ | 8 | | 53 | | <8 | <87.7 | 1000 | VW25-18 | <8 | <8 | <8 | 60.00 | <8 | | | | | | | | | | | | 11.00 | 76.00 | | 13.00 | |
| Aliphatic C21 – C35 | mg.kg$^{-1}$ | 8 | | 53 | | <8 | <87.2 | 840 | TP25-10 | <8 | <8 | <8 | 74.00 | <8 | | | | | | | | | | | | 23.00 | 150.00 | | 30.00 | |
| Aliphatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <274.9 | 2100 | VW25-18 | <10 | <10 | <10 | 200.00 | <10 | | | | | | | | | | | | 39.00 | 320.00 | | 53.00 | |
| Aromatic C5 - C7 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <2.88 | 46 | MW25-25 | <0.01 | 0.26 | <0.01 | <0.01 | <0.01 | | | | | | | | | | | | <0.01 | 0.27 | | <0.01 | |
| Aromatic C7 - C8 | mg.kg$^{-1}$ | 0.01 | | 53 | | <0.01 | <3.77 | 42 | MW25-25 | <0.01 | 3.50 | <0.01 | 0.068 | <0.01 | | | | | | | | | | | | <0.01 | 0.44 | | <0.01 | |
| Aromatic C8 – C10 | mg.kg$^{-1}$ | 0.02 | | 53 | | <0.02 | <18.01 | 250 | MW25-20 | <0.02 | 9.90 | <0.02 | 1.0 | <0.02 | | | | | | | | | | | | <0.02 | 7.50 | | <0.02 | |
| Aromatic C10 – C12 | mg.kg$^{-1}$ | 1 | | 53 | | <1 | <101.9 | 1800 | MW25-25 | <1 | 21.00 | <1 | 47.00 | <1 | | | | | | | | | | | | 5.50 | 36.00 | | <1 | |
| Aromatic C12 – C16 | mg.kg$^{-1}$ | 2 | | 53 | | <2 | <212.4 | 3500 | MW25-25 | <2 | 100.00 | <2 | 850.00 | <2 | | | | | | | | | | | | 21.00 | 33.00 | | <2 | |
| Aromatic C16 – C21 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <321.5 | 6000 | MW25-25 | <10 | 58.00 | <10 | 840.00 | <10 | | | | | | | | | | | | 130.00 | 53.00 | | 16.00 | |
| Aromatic C21 – C35 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <223 | 4200 | MW25-25 | <10 | 27.00 | <10 | 280.00 | <10 | | | | | | | | | | | | 200.00 | 69.00 | | 31.00 | |
| Aromatic C5 – C35 | mg.kg$^{-1}$ | 10 | | 53 | | <10 | <878.3 | 16000 | MW25-25 | <10 | 220.00 | <10 | 2000.00 | <10 | | | | | | | | | | | | 370.00 | 200.00 | | 47.00 | |
| Chloromethane | mg.kg$^{-1}$ | 0.005 | 0.0119 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Chloroethane | mg.kg$^{-1}$ | 0.005 | 11.791 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Bromomethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Vinyl chloride (Chloroethene) | mg.kg$^{-1}$ | 0.005 | 0.0064 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Trichlorofluoromethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,1-Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.326 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Trans 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.9 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,1-Dichloroethane | mg.kg$^{-1}$ | 0.005 | 3.47 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 2,2-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Trichloromethane (Chloroform) | mg.kg$^{-1}$ | 0.005 | 0.91 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | mg.kg$^{-1}$ | 0.005 | 8.8 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,2-Dichloroethane | mg.kg$^{-1}$ | 0.007 | 0.11 | 16 | 0 | <0.007 | <0.007 | <0.007 | n/a | | | | | | | | | <0.007 | | | | | | | | | | | | |
| 1,1-Dichloropropene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Cis 1,2 Dichloroethene | mg.kg$^{-1}$ | 0.005 | 0.46 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Carbon tetrachloride (Tetrachloromethane) | mg.kg$^{-1}$ | 0.005 | 0.026 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,2-Dichloropropane | mg.kg$^{-1}$ | 0.006 | 0.0338 | 16 | 0 | <0.006 | <0.006 | <0.006 | n/a | | | | | | | | | <0.006 | | | | | | | | | | | | |
| Trichloroethylene | mg.kg$^{-1}$ | 0.01 | 0.0093 | 16 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | <0.01 | | | | | | | | | | | | |
| Dibromomethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Bromodichloromethane | mg.kg$^{-1}$ | 0.005 | 0.0239 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Cis-1,3-dichloropropene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Trans-1,3-dichloropropene | mg.kg$^{-1}$ | 0.01 | | 16 | | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | <0.01 | | | | | | | | | | | | |
| 1,1,2 Trichloroethane | mg.kg$^{-1}$ | 0.006 | 0.923 | 16 | 0 | <0.006 | <0.006 | <0.006 | n/a | | | | | | | | | <0.006 | | | | | | | | | | | | |
| 1,3-Dichloropropane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Dibromochloromethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Tetrachloroethylene | mg.kg$^{-1}$ | 0.005 | 0.31 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,2-Dibromoethane | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| ChloroBenzene | mg.kg$^{-1}$ | 0.005 | 0.46 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.2 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Styrene | mg.kg$^{-1}$ | 0.005 | 19.448 | 16 | 1 | <0.005 | <1.868 | 29 | MW25-25 | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Bromoform | mg.kg$^{-1}$ | 0.005 | 4.548 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Iso-propylbenzene | mg.kg$^{-1}$ | 0.005 | 15.953 | 16 | 0 | <0.005 | <0.3 | 1.1 | VW25-18 | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | mg.kg$^{-1}$ | 0.005 | 1.6 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Bromobenzene | mg.kg$^{-1}$ | 0.005 | 1.258 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| n-Propylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.638 | 2.4 | MW25-14 | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 2-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 4-Chlorotoluene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <2.609 | 7.6 | TP25-20 | | | | | | | | | <0.005 | | | | | | | | | | | | |
| tert-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | mg.kg$^{-1}$ | 0.005 | 0.517 | 16 | 12 | <0.005 | <7.671 | 27 | MW25-14 | | | | | | | | | <0.005 | | | | | | | | | | | | |
| sec-Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 0.4 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| p-Isopropyltoluene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.242 | 1.3 | MW25-14 | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 45.847 | 7 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.005 | 23.08 | 13 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Butylbenzene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.076 | 0.79 | VW25-18 | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | mg.kg$^{-1}$ | 0.008 | | 16 | | <0.008 | <0.008 | <0.008 | n/a | | | | | | | | | <0.008 | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 2.58 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.005 | | 16 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | mg.kg$^{-1}$ | 0.005 | 1.477 | 16 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 | | | | | | | | | | | | |
| Aniline | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.2 | 0.4 | VW25-18 | | | | | | | | | | | | | | | | | | | | | |
| Phenol | mg.kg$^{-1}$ | 0.2 | 280 | 7 | 0 | <0.2 | <0.5 | 2.4 | MW25-25 | | | | | | | | | | | | | | | | | | | | | |
| 2-chlorophenol | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 1,3-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 0.4 | 7 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | mg.kg$^{-1}$ | 0.1 | 23.08 | 7 | 0 | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 1,4-dichlorobenzene | mg.kg$^{-1}$ | 0.2 | 45.847 | 7 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 2-Methylphenol | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <8.1 | 55 | MW25-25 | | | | | | | | | | | | | | | | | | | | | |
| Hexachloroethane | mg.kg$^{-1}$ | 0.05 | 0.287 | 7 | 0 | <0.05 | <0.05 | <0.05 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Nitrobenzene | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 4-Methylphenol | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <13.2 | 91 | MW25-25 | | | | | | | | | | | | | | | | | | | | | |
| Isophorone | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 2-Nitrophenol | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | mg.kg$^{-1}$ | 0.3 | 34.117 | 7 | 1 | <0.3 | <31.7 | 220 | MW25-25 | | | | | | | | | | | | | | | | | | | | | |
| Bis(2-chloroethoxy)methane | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | mg.kg$^{-1}$ | 0.3 | 2.58 | 7 | 0 | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 4-Chloroaniline | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Hexachlorobutadiene | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | mg.kg$^{-1}$ | 0.1 | | 7 | | 0.2 | 103.9 | 620 | MW25-25 | | | | | | | | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | mg.kg$^{-1}$ | 0.1 | 5.334 | 7 | 0 | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Dimethylphthalate | mg.kg$^{-1}$ | 0.1 | | 7 | | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | mg.kg$^{-1}$ | 0.1 | 1.469 | 7 | 0 | <0.1 | <0.1 | <0.1 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | mg.kg$^{-1}$ | 0.2 | 2.774 | 7 | 0 | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Dibenzofuran | mg.kg$^{-1}$ | 0.2 | | 7 | | 2.5 | 82.3 | 550 | MW25-25 | | | | | | | | | | | | | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Diethyl phthalate | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | | | | |
| 4-Nitroaniline | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Azobenzene | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Bromophenyl phenyl ether | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Hexachlorobenzene | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <0.3 | <0.3 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Carbazole | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <47.3 | 320 | MW25-25 | | | | | | | | | | | | | | | | | | | | | |
| Dibutyl phthalate | mg.kg$^{-1}$ | 0.2 | | 7 | | <0.2 | <0.2 | <0.2 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Anthraquinone | mg.kg$^{-1}$ | 0.3 | | 7 | | <0.3 | <2.9 | 14 | MW25-25 | | | | | | | | | | | | | | | | | | | | | |
| Butyl benzyl phthalate | mg.kg$^{-1}$ | 0.3 | 2615.035 | 7 | 0 | <0.3 | <0.5 | 1.8 | MW25-14 | | | | | | | | | | | | | | | | | | | | | |
| PCB Congener 28 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | | | | |
| PCB Congener 52 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | | | | |
| PCB Congener 101 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | | | | |
| PCB Congener 118 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | | | | |
| PCB Congener 138 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | | | | |
| PCB Congener 153 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | | | | |
| PCB Congener 180 | mg.kg$^{-1}$ | 0.001 | | 1 | | <0.001 | <0.001 | <0.001 | n/a | | | | | | | | | | | | | | | | | | | | | |
| Total PCBs | mg.kg$^{-1}$ | 0.007 | | 1 | | <0.007 | <0.007 | <0.007 | n/a | | | | | | | | | | | | | | | | | | | | | |

MGR = Made Ground
BC = Boulder Clay
WS&G = Wolston Sand and Gravel
WCM = Wolston Clay Member

| NUMBER OF SAMPLES: 9 | | | | | | | | | Sample Location | MW25-26 | MW25-26 | MW25-26-DUP | MW25-28A | MW25-28A-DUP | TP25-15 | TP25-15 | TP25-16 | VW25-07 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Depth (m bgl) | 2.00 | 6.00 | 2.00 | 8.00 | 8.00 | 1.10 | 2.00 | 1.30 | 1.00 |
| | | | | | | | | | Date Sampled | 19/02/2025 | 19/02/2025 | 19/02/2025 | 20/02/2025 | 20/02/2025 | 10/02/2025 | 10/02/2025 | 10/02/2025 | 11/02/2025 |
| | | | CRITERIA 1 | | CRITERIA 1 | | | | Stratum | OM | WS&G | OM | WS&G | WS&G | MGR | OM | MGR | MGR |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Residential (with veg uptake C4SL)** | **No. Analyses** | **Exceedances** | **Min** | **Mean** | **Max** | Max ID | | | | | | | | | |
| Stone Content | % | 0.1 | | 9 | | <0.1 | <9.4 | 77.3 | VW25-07 | <0.1 | <0.1 | 6.40 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 77.30 |
| Moisture Content | % | 0.01 | | 9 | | 3.4 | 11.8 | 20 | MW25-28A | 15.00 | 17.00 | 12.00 | 20.00 | 20.00 | 3.40 | 11.00 | 3.60 | 4.20 |
| Total mass of sample received | kg | 0.1 | | 9 | | 0.5 | 0.7 | 1 | MW25-28A | 0.50 | 0.60 | 0.50 | 1.0 | 0.80 | 0.80 | 0.80 | 0.80 | 0.70 |
| Asbestos in Soil Screen / Identification Name | Type | | | | | | | | | | | | | | | | | |
| Asbestos in Soil | Detect | N/A | | 0 | | 0 | n/a | <0 | n/a | - | - | - | - | - | - | - | - | - |
| pH | pH Units | N/A | | 9 | | 7.5 | 8.6 | 9.7 | TP25-15 | 7.60 | 8.70 | 7.90 | 8.10 | 7.50 | 9.70 | 8.40 | 9.70 | 9.60 |
| Water Soluble SO4 16hr extraction (2:1) | $mg.kg^{-1}$ | 2.5 | | 9 | | 42 | 93.4 | 190 | MW25-26 | 190.00 | 120.00 | 86.00 | 49.00 | 42.00 | 57.00 | 110.00 | 67.00 | 120.00 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | $mg.L^{-1}$ | 1.25 | | 9 | | 20.8 | 46.68 | 95.1 | MW25-26 | 95.10 | 61.20 | 43.00 | 24.30 | 20.80 | 28.60 | 53.50 | 33.50 | 60.10 |
| Sulphide | $mg.kg^{-1}$ | 1 | | 9 | | <1 | <3.4 | 8.5 | MW25-26-DUP | <1 | <1 | 8.50 | 2.20 | 3.20 | 2.30 | 4.10 | 2.80 | 5.60 |
| Ammonium as NH4 | $mg.kg^{-1}$ | 0.5 | | 9 | | <0.5 | <0.5 | <0.5 | n/a | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Organic Matter | % | 0.1 | | 9 | | <0.1 | <0.4 | 1 | MW25-26 | 1.0 | <0.1 | 1.0 | <0.1 | <0.1 | 0.30 | 0.60 | 0.30 | 0.10 |
| Fraction Organic Carbon (FOC) | N/A | 0.001 | | 2 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | | <0.001 | | | | | |
| Loss on Ignition | % | 0.2 | | 9 | | <0.2 | <1 | 2.8 | MW25-26-DUP | 2.20 | 0.70 | 2.80 | <0.2 | <0.2 | 0.30 | 1.60 | 0.30 | 0.40 |
| Cyanide (Total) (as CN) | $mg.kg^{-1}$ | 1 | | 9 | | <1 | <1 | <1 | n/a | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Complexed cyanide | $mg.kg^{-1}$ | 1 | | 9 | | <1 | <1 | <1 | n/a | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Easily liberatable cyanide | $mg.kg^{-1}$ | 1 | 1.44 | 9 | 0 | <1 | <1 | <1 | n/a | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thiocyanate | $mg.kg^{-1}$ | 5 | | 9 | | <5 | <5 | <5 | n/a | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloride | $mg.kg^{-1}$ | 1 | | 9 | | 4.1 | 34.3 | 150 | TP25-15 | 5.20 | 90.00 | 4.10 | 5.60 | 5.70 | 14.00 | 150.00 | 19.00 | 15.00 |
| Sulphur (Elemental) | $mg.kg^{-1}$ | 5 | | 9 | | <5 | <6.4 | 10 | VW25-07 | <5 | <5 | <5 | <5 | <5 | <5 | 7.90 | 9.40 | 10.00 |
| Catechol | $mg.kg^{-1}$ | 0.1 | | 9 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Resorcinol | $mg.kg^{-1}$ | 0.1 | | 9 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Cresols (Total) | $mg.kg^{-1}$ | 0.3 | | 9 | | <0.3 | <0.3 | <0.3 | n/a | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthols | $mg.kg^{-1}$ | 0.2 | | 9 | | <0.2 | <0.2 | <0.2 | n/a | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 2-Isopropylphenol | $mg.kg^{-1}$ | 0.1 | | 9 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenol | $mg.kg^{-1}$ | 0.1 | | 9 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Trimethylphenol (2,3,5-) | $mg.kg^{-1}$ | 0.1 | | 9 | | <0.1 | <0.1 | <0.1 | n/a | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenols (Total) | $mg.kg^{-1}$ | 1.4 | | 9 | | <1.4 | <1.4 | <1.4 | n/a | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 | <1.4 |
| Xylenols and Ethylphenols (Total) | $mg.kg^{-1}$ | 0.4 | | 9 | | <0.4 | <0.4 | <0.4 | n/a | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Naphthalene | $mg.kg^{-1}$ | 0.05 | 15 | 9 | 0 | <0.05 | <0.11 | 0.43 | TP25-16 | 0.060 | <0.05 | 0.070 | <0.05 | <0.05 | <0.05 | 0.17 | 0.43 | <0.05 |
| Acenaphthylene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.06 | 0.11 | TP25-16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 |
| Acenaphthene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Fluorene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.06 | 0.12 | TP25-16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | <0.05 |
| Phenanthrene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.09 | 0.37 | TP25-16 | <0.05 | <0.05 | 0.060 | <0.05 | <0.05 | <0.05 | <0.05 | 0.37 | <0.05 |
| Anthracene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.05 | 0.06 | TP25-16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.060 | <0.05 |
| Fluoranthene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.06 | 0.12 | TP25-16 | <0.05 | <0.05 | 0.060 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | <0.05 |
| Pyrene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.06 | 0.15 | TP25-16 | <0.05 | <0.05 | 0.080 | <0.05 | <0.05 | <0.05 | <0.05 | 0.15 | <0.05 |
| Benzo[a]anthracene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.05 | 0.05 | TP25-16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.050 | <0.05 |
| Chrysene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.05 | 0.06 | TP25-16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.060 | <0.05 |
| Benzo[b]fluoranthene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[k]fluoranthene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[a]pyrene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Indeno[1,2,3-cd]pyrene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibenz(a,h)anthracene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Benzo[ghi]perylene | $mg.kg^{-1}$ | 0.05 | | 9 | | <0.05 | <0.05 | <0.05 | n/a | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| PAH 16 Total | $mg.kg^{-1}$ | 0.8 | | 9 | | <0.8 | <0.9 | 1.48 | TP25-16 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | 1.48 | <0.8 |
| Arsenic | $mg.kg^{-1}$ | 1 | | 9 | | 2.6 | 6.9 | 12 | MW25-26-DUP | 7.50 | 3.90 | 12.00 | 2.60 | 3.10 | 7.10 | 10.00 | 7.70 | 8.10 |
| Boron | $mg.kg^{-1}$ | 0.2 | | 9 | | 0.4 | 0.7 | 1.1 | TP25-15 | 0.60 | 0.70 | 1.0 | 0.40 | 0.50 | 0.60 | 1.10 | 0.60 | 0.60 |
| Cadmium | $mg.kg^{-1}$ | 0.2 | | 9 | | <0.2 | <0.3 | 0.8 | TP25-16 | <0.2 | 0.30 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.80 | <0.2 |
| Chromium (VI) | $mg.kg^{-1}$ | 1.2 | | 9 | | <1.2 | <1.2 | <1.2 | n/a | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 |
| Chromium (III) | $mg.kg^{-1}$ | | | | | | | | | | | | | | | | | |
| Chromium (Total) | $mg.kg^{-1}$ | 1 | | 9 | | 3.7 | 15.3 | 35 | MW25-26 | 35.00 | 14.00 | 29.00 | 4.20 | 3.70 | 8.90 | 26.00 | 6.80 | 10.00 |
| Copper | $mg.kg^{-1}$ | 1 | | 9 | | 6.3 | 27.2 | 66 | TP25-15 | 20.00 | 13.00 | 20.00 | 6.30 | 8.10 | 66.00 | 20.00 | 40.00 | 51.00 |
| Lead | $mg.kg^{-1}$ | 1 | | 9 | | 4.7 | 15.2 | 55 | TP25-16 | 12.00 | 6.90 | 13.00 | 6.60 | 4.70 | 13.00 | 13.00 | 55.00 | 13.00 |
| Mercury (inorganic) | $mg.kg^{-1}$ | 0.3 | | 9 | | <0.3 | <0.3 | <0.3 | n/a | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel | $mg.kg^{-1}$ | 1 | | 9 | | 4.7 | 13.7 | 32 | MW25-26 | 32.00 | 14.00 | 25.00 | 4.90 | 4.70 | 5.10 | 24.00 | 5.30 | 8.50 |
| Selenium | $mg.kg^{-1}$ | 1 | | 9 | | <1 | <1 | <1 | n/a | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Zinc | $mg.kg^{-1}$ | 1 | | 9 | | 19 | 56.3 | 120 | TP25-16 | 67.00 | 41.00 | 55.00 | 20.00 | 19.00 | 61.00 | 60.00 | 120.00 | 64.00 |
| Benzene | $mg.kg^{-1}$ | 0.005 | 0.202927877 | 9 | 0 | <0.005 | <0.01 | 0 | MW25-26 | 0.042 | <0.005 | 0.013 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Toluene | $mg.kg^{-1}$ | 0.005 | 130 | 9 | 0 | <0.005 | <0.006 | 0 | MW25-26 | 0.017 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Ethylbenzene | $mg.kg^{-1}$ | 0.005 | 47 | 9 | 0 | <0.005 | <0.005 | <0.005 | n/a | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Xylene (p & m-Xylene) | $mg.kg^{-1}$ | 0.008 | | 9 | | <0.008 | <0.008 | <0.008 | n/a | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 |
| Xylene (o-Xylene) | $mg.kg^{-1}$ | 0.005 | 60 | 9 | 0 | <0.005 | <0.005 | <0.005 | n/a | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Methyl tert-butyl ether | $mg.kg^{-1}$ | 0.005 | 76.01 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| TPH (C10 - C40) | $mg.kg^{-1}$ | 10 | | 9 | | <10 | <10 | <10 | n/a | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Chloromethane | $mg.kg^{-1}$ | 0.005 | 0.0119 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Chloroethane | $mg.kg^{-1}$ | 0.005 | 11.791 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Bromomethane | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Vinyl chloride (Chloroethene) | $mg.kg^{-1}$ | 0.005 | 0.0064 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Trichlorofluoromethane | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,1-Dichloroethene | $mg.kg^{-1}$ | 0.005 | 0.326 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,1,2-Trichloro 1,2,2-Trifluoroethane | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Trans 1,2 Dichloroethene | $mg.kg^{-1}$ | 0.005 | 0.9 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,1-Dichloroethane | $mg.kg^{-1}$ | 0.005 | 3.47 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 2,2-Dichloropropane | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Trichloromethane (Chloroform) | $mg.kg^{-1}$ | 0.005 | 0.91 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,1,1-Trichloroethane (TCA) | $mg.kg^{-1}$ | 0.005 | 8.8 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,2-Dichloroethane | $mg.kg^{-1}$ | 0.007 | 0.11 | 1 | 0 | <0.007 | <0.007 | <0.007 | n/a | | | | | | | | | <0.007 |
| 1,1-Dichloropropene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Cis 1,2 Dichloroethene | $mg.kg^{-1}$ | 0.005 | 0.46 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Carbon tetrachloride (Tetrachloromethane) | $mg.kg^{-1}$ | 0.005 | 0.026 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,2-Dichloropropane | $mg.kg^{-1}$ | 0.006 | 0.0338 | 1 | 0 | <0.006 | <0.006 | <0.006 | n/a | | | | | | | | | <0.006 |
| Trichloroethylene | $mg.kg^{-1}$ | 0.01 | 0.0093 | 1 | 0 | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | <0.01 |
| Dibromomethane | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Bromodichloromethane | $mg.kg^{-1}$ | 0.005 | 0.0239 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Cis-1,3-dichloropropene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Trans-1,3-dichloropropene | $mg.kg^{-1}$ | 0.01 | | 1 | | <0.01 | <0.01 | <0.01 | n/a | | | | | | | | | <0.01 |
| 1,1,2 Trichloroethane | $mg.kg^{-1}$ | 0.006 | 0.923 | 1 | 0 | <0.006 | <0.006 | <0.006 | n/a | | | | | | | | | <0.006 |
| 1,3-Dichloropropane | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Dibromochloromethane | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Tetrachloroethylene | $mg.kg^{-1}$ | 0.005 | 0.31 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,2-Dibromoethane | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| ChloroBenzene | $mg.kg^{-1}$ | 0.005 | 0.46 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | $mg.kg^{-1}$ | 0.005 | 1.2 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Styrene | $mg.kg^{-1}$ | 0.005 | 19.448 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Bromoform | $mg.kg^{-1}$ | 0.005 | 4.548 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Iso-propylbenzene | $mg.kg^{-1}$ | 0.005 | 15.953 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | $mg.kg^{-1}$ | 0.005 | 1.6 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Bromobenzene | $mg.kg^{-1}$ | 0.005 | 1.258 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| n-Propylbenzene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 2-Chlorotoluene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 4-Chlorotoluene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,3,5-Trimethylbenzene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| tert-Butylbenzene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,2,4-Trimethylbenzene | $mg.kg^{-1}$ | 0.005 | 0.517 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| sec-Butylbenzene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,3-dichlorobenzene | $mg.kg^{-1}$ | 0.005 | 0.4 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| p-Isopropyltoluene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,4-dichlorobenzene | $mg.kg^{-1}$ | 0.005 | 45.847 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,2-dichlorobenzene | $mg.kg^{-1}$ | 0.005 | 23.08 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Butylbenzene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,2-Dibromo-3-chloropropane | $mg.kg^{-1}$ | 0.008 | | 1 | | <0.008 | <0.008 | <0.008 | n/a | | | | | | | | | <0.008 |
| 1,2,4-trichlorobenzene | $mg.kg^{-1}$ | 0.005 | 2.58 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| Hexachlorobutadiene | $mg.kg^{-1}$ | 0.005 | | 1 | | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |
| 1,2,3-trichlorobenzene | $mg.kg^{-1}$ | 0.005 | 1.477 | 1 | 0 | <0.005 | <0.005 | <0.005 | n/a | | | | | | | | | <0.005 |

MGR = Made Ground
OM = Oadby Member
WS&G = Wolston Sand and Gravel

| NUMBER OF SAMPLES: 11 | | | | | | EXCEEDS BOTH | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CRITERIA 1 | CRITERIA 2 | | CRITERIA 1 | CRITERIA 2 | | | | | | | | | | | | | | | |
| **Sample Location** | | | | | | | | | | | | VW25-02 | VW25-02 | VW25-02 | VW25-04 | VW25-04 | VW25-04 | VW25-23 | VW25-23 | VW25-23 | VW25-23-DUP | VW25-23-DUP |
| Monitoring Round No. | | | | | | | | | | | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 |
| Date Sampled | | | | | | | | | | | | 17/03/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 07/04/2025 |
| Strata | | | | | | | | | | | | | Made Ground | | | Made Ground | | | Wolston Sand and Gravel | | | |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Residential** | **Commercial** | **No. Analyses** | **Exceedances** | **Exceedances** | **Min** | **Mean** | **Max** | Max ID | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug.m$^{-3}$ | 2.80 | - | 113 | 11 | 0 | 0 | <2.8 | <2.8 | <2.8 | n/a | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 |
| 1,1,2,2-Tetrachloroethane | ug.m$^{-3}$ | 3.50 | | | 11 | | | <3.5 | <3.5 | <3.5 | n/a | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 |
| 1,1,2-Trichloroethane | ug.m$^{-3}$ | 2.80 | | | 11 | | | <2.8 | <2.8 | <2.8 | n/a | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 |
| 1,1-Dichloroethene | ug.m$^{-3}$ | 2.00 | | | 11 | | | <2 | <2 | <2 | n/a | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,1-Dichloroethane | ug.m$^{-3}$ | 2.10 | | | 11 | | | <2.1 | <4.9 | 11.0 | VW25-23 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | 7.5 | 11 | 8 | 6.3 | 8.9 |
| 1,2,4-Trichlorobenzene | ug.m$^{-3}$ | 3.80 | | | 11 | | | <3.8 | <3.8 | <3.8 | n/a | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 |
| 1,2,4-Trimethylbenzene | ug.m$^{-3}$ | 2.50 | 7 | 21.7 | 11 | 1 | 0 | <2.5 | <4 | **18.0** | VW25-04 | 3.4 | < 2.5 | < 2.5 | < 2.5 | **18** | 2.9 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| 1,2-Dibromoethane | ug.m$^{-3}$ | 3.90 | | | 11 | | | <3.9 | <3.9 | <3.9 | n/a | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 |
| 1,2-Dichlorobenzene | ug.m$^{-3}$ | 3.10 | 35.6 | 882 | 11 | 0 | 0 | <3.1 | <3.1 | <3.1 | n/a | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| 1,2-Dichloroethane | ug.m$^{-3}$ | 2.00 | | | 11 | | | <2 | <2 | <2 | n/a | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichloropropane | ug.m$^{-3}$ | 2.40 | | | 11 | | | <2.4 | <2.4 | <2.4 | n/a | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 |
| 1,3-Butadiene | ug.m$^{-3}$ | 1.10 | | | 11 | | | <1.1 | <1.1 | <1.1 | n/a | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 1,3-Dichlorobenzene | ug.m$^{-3}$ | 3.10 | | | 11 | | | <3.1 | <3.1 | <3.1 | n/a | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| 1,4-Dichlorobenzene | ug.m$^{-3}$ | 3.10 | | | 11 | | | <3.1 | <3.1 | <3.1 | n/a | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| 1,4-Dioxane | ug.m$^{-3}$ | 1.80 | | | 11 | | | <1.8 | <1.8 | 1.9 | VW25-04 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 1.9 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 4-Ethyltoluene | ug.m$^{-3}$ | 2.50 | | | 11 | | | <2.5 | <3.4 | 12.0 | VW25-04 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | 12 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| Acetone | ug.m$^{-3}$ | 9.70 | | | 11 | | | 13 | 41.8 | 99.0 | VW25-04 | 28 | 14 | 65 | 47 | 76 | 99 | 18 | 13 | 45 | 40 | 15 |
| Acrolein | ug.m$^{-3}$ | 1.20 | | | 11 | | | <1.2 | <8.8 | 67.0 | VW25-04 | 1.8 | 1.6 | 8.1 | < 1.2 | 67 | < 1.2 | < 1.2 | 4.9 | 5.1 | < 1.2 | 3.5 |
| Bromodichloromethane | ug.m$^{-3}$ | 3.40 | | | 11 | | | <3.4 | <3.4 | <3.4 | n/a | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 |
| Benzyl chloride | ug.m$^{-3}$ | 2.60 | | | 11 | | | <2.6 | <2.6 | <2.6 | n/a | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 |
| Benzene | ug.m$^{-3}$ | 1.00 | 5 | 30.3 | 11 | 3 | 0 | <1 | <4 | **17.0** | VW25-04 | < 1 | < 1 | 1.4 | **6.3** | **17** | **12** | < 1 | < 1 | 1.7 | < 1 | < 1 |
| Bromomethane | ug.m$^{-3}$ | 2.00 | | | 11 | | | <2 | <2 | <2 | n/a | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Cis-1,2-dichloroethene | ug.m$^{-3}$ | 2.00 | | | 11 | | | <2 | <2 | <2 | n/a | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Cis-1,3-dichloropropene | ug.m$^{-3}$ | 2.30 | | | 11 | | | <2.3 | <2.3 | <2.3 | n/a | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| Chlorobenzene | ug.m$^{-3}$ | 2.30 | | | 11 | | | <2.3 | <2.3 | <2.3 | n/a | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| Carbon tetrachloride | ug.m$^{-3}$ | 3.20 | | | 11 | | | <3.2 | <3.2 | <3.2 | n/a | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 |
| Carbon disulphide | ug.m$^{-3}$ | 9.50 | | | 11 | | | 27 | 331.3 | 1300.0 | VW25-04 | 360 | 160 | 140 | 380 | 1300 | 1100 | 49 | 27 | 45 | 55 | 28 |
| Chloroethane | ug.m$^{-3}$ | 1.30 | 10,000 | 62,000 | 11 | 0 | 0 | <1.3 | <1.4 | 1.9 | VW25-04 | < 1.3 | < 1.3 | < 1.3 | 1.9 | 1.5 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 |
| Chloroform | ug.m$^{-3}$ | 2.50 | 140 | 853 | 11 | 0 | 0 | <2.5 | <9.4 | 62.0 | VW25-04 | < 2.5 | < 2.5 | < 2.5 | 62 | 19 | 2.7 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| Chloromethane | ug.m$^{-3}$ | 10.40 | 18 | 55.8 | 11 | 0 | 0 | <10.4 | <10.4 | <10.4 | n/a | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 |
| Cyclohexane | ug.m$^{-3}$ | 1.80 | | | 11 | | | <1.8 | <5.3 | 17.0 | VW25-04 | < 1.8 | < 1.8 | < 1.8 | 5 | 16 | 17 | 5.3 | < 1.8 | < 1.8 | 4.6 | < 1.8 |
| Dibromochloromethane | ug.m$^{-3}$ | 4.30 | | | 11 | | | <4.3 | <4.3 | <4.3 | n/a | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 |
| Dichlorodifluoromethane | ug.m$^{-3}$ | 2.50 | | | 11 | | | <2.5 | <2.5 | 2.9 | VW25-23 | < 2.5 | < 2.5 | 2.6 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | 2.9 | < 2.5 | < 2.5 |
| Dichlomethane | ug.m$^{-3}$ | 24.80 | | | 11 | | | <24.8 | <30.5 | 49.0 | VW25-04 | < 24.8 | < 24.8 | 40 | 49 | 37 | < 24.8 | < 24.8 | < 24.8 | 36 | < 24.8 | < 24.8 |
| Dichlorotetrafluoroethane | ug.m$^{-3}$ | 3.60 | | | 11 | | | <3.6 | <3.6 | <3.6 | n/a | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 |
| Ethyl acetate | ug.m$^{-3}$ | 1.80 | | | 11 | | | <1.8 | <2.4 | 5.8 | VW25-04 | < 1.8 | < 1.8 | < 1.8 | 4 | 5.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Ethylbenzene | ug.m$^{-3}$ | 1.30 | 770 | 4,730 | 11 | 0 | 0 | <1.3 | <2.3 | 7.1 | VW25-04 | < 1.3 | < 1.3 | 1.4 | < 1.3 | 7.1 | 6.1 | < 1.3 | < 1.3 | 2.1 | < 1.3 | < 1.3 |
| Ethanol | ug.m$^{-3}$ | 20.00 | | | 11 | | | <5.8 | <2059 | 13000.0 | VW25-04 | <20 | < 5.8 | 57 | 9300 | 13000 | 110 | 7 | < 5.8 | 110 | 28 | < 5.8 |
| Hexachlorobutadiene | ug.m$^{-3}$ | 5.40 | | | 11 | | | <5.4 | <5.4 | <5.4 | n/a | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 |
| Heptane | ug.m$^{-3}$ | 2.10 | 18,400 | 54,300 | 11 | 0 | 0 | <2.1 | <6 | 23.0 | VW25-04 | < 2.1 | < 2.1 | < 2.1 | 7.6 | 23 | 19 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| Hexane | ug.m$^{-3}$ | 10.80 | 1,000 | 3,150 | 11 | 0 | 0 | <10.8 | <37.1 | 130.0 | VW25-04 | < 10.8 | < 10.8 | 16 | 61 | 120 | 130 | < 10.8 | < 10.8 | 16 | < 10.8 | < 10.8 |
| Isopropyl alcohol | ug.m$^{-3}$ | 5.00 | | | 11 | | | <5 | <13.7 | 43.0 | VW25-23-DUP | 5.9 | < 5 | 16 | 14 | < 5 | 13 | < 5 | < 5 | 34 | 43 | < 5 |
| 2-Hexanone (MBK) | ug.m$^{-3}$ | 2.10 | | | 11 | | | <2.1 | <2.2 | 2.8 | VW25-04 | < 2.1 | < 2.1 | < 2.1 | 2.5 | < 2.1 | 2.8 | < 2.1 | < 2.1 | < 2.1 | 2.5 | < 2.1 |
| MEK | ug.m$^{-3}$ | 1.50 | | | 11 | | | <1.5 | <40.9 | 320.0 | VW25-04 | 3.7 | 3.3 | 10 | 29 | 320 | 67 | 2.5 | 3 | < 1.5 | 7 | 3.4 |
| Methyl methacrylate | ug.m$^{-3}$ | 2.10 | | | 11 | | | <2.1 | <2.1 | <2.1 | n/a | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| MIBK | ug.m$^{-3}$ | 2.10 | | | 11 | | | <2.1 | <2.2 | 3.6 | VW25-04 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | 3.6 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| MTBE | ug.m$^{-3}$ | 1.80 | | | 11 | | | <1.8 | <1.8 | <1.8 | n/a | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| O-xylene | ug.m$^{-3}$ | 1.30 | 200 | 1,260 | 11 | 0 | 0 | <1.3 | <2.3 | 7.1 | VW25-04 | < 1.3 | < 1.3 | 2.5 | < 1.3 | 7.1 | 3.6 | < 1.3 | < 1.3 | 3.2 | < 1.3 | < 1.3 |
| M/p-xylene | ug.m$^{-3}$ | 1.30 | 200 | 1,260 | 11 | 0 | 0 | <1.3 | <6.7 | 32.0 | VW25-04 | 1.6 | 4.2 | 6.4 | 3.2 | 32 | 13 | < 1.3 | 1.9 | 6.2 | < 1.3 | 2.1 |
| Propene | ug.m$^{-3}$ | 0.90 | | | 11 | | | <0.9 | <245.4 | 1300.0 | VW25-04 | 1.7 | < 0.9 | 7 | 1300 | 760 | 460 | 60 | 31 | 7.9 | 50 | 21 |
| Styrene | ug.m$^{-3}$ | 2.20 | 850 | 5210 | 11 | 0 | 0 | <2.2 | <26.3 | 140.0 | VW25-04 | 4.9 | 21 | 52 | < 2.2 | 140 | 24 | 7 | 15 | 4.6 | 9.8 | 9.1 |
| Trans-1,2-dichloroethene | ug.m$^{-3}$ | 2.00 | | | 11 | | | <2 | <2 | <2 | n/a | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Trans-1,3-dichloropropene | ug.m$^{-3}$ | 2.30 | | | 11 | | | <2.3 | <2.3 | <2.3 | n/a | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| Bromoform | ug.m$^{-3}$ | 5.30 | | | 11 | | | <5.3 | <5.3 | <5.3 | n/a | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 |
| Trichloroethene | ug.m$^{-3}$ | 2.70 | 5.6 | 113 | 11 | 0 | 0 | <2.7 | <2.7 | <2.7 | n/a | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 |
| Trichlorofluoromethane | ug.m$^{-3}$ | 2.90 | | | 11 | | | <2.9 | <2.9 | <2.9 | n/a | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 |
| Trichlorotrifluoroethane | ug.m$^{-3}$ | 3.90 | | | 11 | | | <3.9 | <3.9 | <3.9 | n/a | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 |
| Tetrachloroethene | ug.m$^{-3}$ | 3.50 | 200 | 1180 | 11 | 0 | 0 | <3.5 | <3.5 | <3.5 | n/a | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 |
| THF | ug.m$^{-3}$ | 1.50 | | | 11 | | | <1.5 | <1.5 | <1.5 | n/a | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 |
| 1,3,5-Trimethylbenzene | ug.m$^{-3}$ | 2.50 | | | 11 | | | <2.5 | <3.2 | 10.0 | VW25-04 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | 10 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| Toluene | ug.m$^{-3}$ | 1.20 | 5000 | 30200 | 11 | 0 | 0 | 2 | 9.5 | 42.0 | VW25-04 | 4.1 | 2.9 | 5.8 | 8.1 | 42 | 25 | 2 | 2.1 | 7.1 | 3 | 2.1 |
| Vinyl acetate | ug.m$^{-3}$ | 1.80 | | | 11 | | | <1.8 | <1.8 | <1.8 | n/a | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Vinyl chloride | ug.m$^{-3}$ | **1.30** | 1 | 6.1 | 11 | 0 | 0 | **<1.3** | **<1.3** | **<1.3** | n/a | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** |
| Naphthalene | ug.m$^{-3}$ | 2.70 | 3 | 17.8 | 11 | 0 | 0 | <2.7 | <2.7 | <2.7 | n/a | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 |
| TPH Aliphatic C5-C6 | ug.m$^{-3}$ | 30.00 | 18400 | 54300 | 11 | 0 | 0 | <30 | <123.6 | 520.0 | VW25-04 | < 30 | < 30 | 31 | 310 | 520 | 270 | 34 | < 30 | 62 | 43 | - |
| TPH Aliphatic C6-C8 | ug.m$^{-3}$ | 30.00 | 18400 | 54300 | 11 | 0 | 0 | <30 | <441.1 | 2400.0 | VW25-04 | < 30 | 32 | 97 | 150 | 1900 | 2400 | 46 | < 30 | 81 | 86 | - |
| TPH Aliphatic C8-C10 | ug.m$^{-3}$ | 30.00 | 1000 | 3150 | 11 | 1 | 0 | <30 | <310.2 | **1100.0** | VW25-04 | < 30 | 76 | 240 | 86 | **1100** | 910 | 300 | 170 | 230 | 270 | - |
| TPH Aromatic C6-C7 | ug.m$^{-3}$ | 30.00 | | | 11 | | | <30 | <27.3 | <30 | n/a | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | - |
| TPH Aromatic C7-C8 | ug.m$^{-3}$ | 30.00 | | | 11 | | | <30 | <28.5 | 44.0 | VW25-04 | < 30 | < 30 | < 30 | < 30 | 44 | < 30 | < 30 | < 30 | < 30 | < 30 | - |
| TPH Aromatic C8-C10 | ug.m$^{-3}$ | 30.00 | | | 11 | | | <30 | <46.7 | 190.0 | VW25-04 | < 30 | < 30 | 64 | < 30 | 190 | 50 | < 30 | < 30 | < 30 | < 30 | - |
| TPH >C10-C12 | ug.m$^{-3}$ | 30.00 | | | 11 | | | <30 | <156.2 | 530.0 | VW25-04 | 61 | < 30 | 190 | 46 | 240 | 530 | 91 | 68 | 380 | 82 | - |
| PRO C5-C12 | ug.m$^{-3}$ | 30.00 | | | 11 | | | 120 | 1131.8 | 4300.0 | VW25-04 | 120 | 190 | 640 | 900 | 4200 | 4300 | 500 | 300 | 790 | 510 | - |
| TPH >C5-C6 | ug.m$^{-3}$ | 30.00 | | | 11 | | | <30 | <123.6 | 520.0 | VW25-04 | < 30 | < 30 | 31 | 310 | 520 | 270 | 34 | < 30 | 62 | 43 | - |
| TPH >C6-C8 | ug.m$^{-3}$ | 30.00 | | | 11 | | | <30 | <454 | 2400.0 | VW25-04 | < 30 | 35 | 100 | 170 | 2000 | 2400 | 49 | < 30 | 90 | 90 | - |
| TPH >C8-C10 | ug.m$^{-3}$ | 30.00 | | | 11 | | | <30 | <345.6 | 1300.0 | VW25-04 | < 30 | 100 | 300 | 92 | 1300 | 960 | 310 | 190 | 240 | 280 | - |

CREATE TABLE | 44

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Residential | CRITERIA 2 Commercial | No. Analyses | EXCEEDS BOTH CRITERIA 1 Exceedances | EXCEEDS BOTH CRITERIA 2 Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | $ug.m^{-3}$ | 2.80 | - | 113 | 35 | 0 | 0 | <2.8 | <4.1 | <22.4 | VW25-18 |
| 1,1,2,2-Tetrachloroethane | $ug.m^{-3}$ | 3.50 | | | 35 | | | <3.5 | <5.1 | <28 | VW25-18 |
| 1,1,2-Trichloroethane | $ug.m^{-3}$ | 2.80 | | | 35 | | | <2.8 | <4.1 | <22.4 | VW25-18 |
| 1,1-Dichloroethene | $ug.m^{-3}$ | 2.00 | | | 35 | | | <2 | <2.9 | <16 | VW25-18 |
| 1,1-Dichloroethane | $ug.m^{-3}$ | 2.10 | | | 35 | | | <2.1 | <3.1 | <16.8 | VW25-18 |
| 1,2,4-Trichlorobenzene | $ug.m^{-3}$ | 3.80 | | | 35 | | | <3.8 | <5.5 | <30.4 | VW25-18 |
| 1,2,4-Trimethylbenzene | $ug.m^{-3}$ | 2.50 | 7 | 21.7 | 35 | 3 | 2 | <2.5 | <6.1 | 44.0 | VW25-18 |
| 1,2-Dibromoethane | $ug.m^{-3}$ | 3.90 | | | 35 | | | <3.9 | <5.7 | <31.2 | VW25-18 |
| 1,2-Dichlorobenzene | $ug.m^{-3}$ | 3.10 | 35.6 | 882 | 35 | 0 | 0 | <3.1 | <4.5 | <24.8 | VW25-18 |
| 1,2-Dichloroethane | $ug.m^{-3}$ | 2.00 | | | 35 | | | <2 | <2.9 | <16 | VW25-18 |
| 1,2-Dichloropropane | $ug.m^{-3}$ | 2.40 | | | 35 | | | <2.4 | <3.5 | <19.2 | VW25-18 |
| 1,3-Butadiene | $ug.m^{-3}$ | 1.10 | | | 35 | | | <1.1 | <1.6 | <8.8 | VW25-18 |
| 1,3-Dichlorobenzene | $ug.m^{-3}$ | 3.10 | | | 35 | | | <3.1 | <4.5 | <24.8 | VW25-18 |
| 1,4-Dichlorobenzene | $ug.m^{-3}$ | 3.10 | | | 35 | | | <3.1 | <4.5 | <24.8 | VW25-18 |
| 1,4-Dioxane | $ug.m^{-3}$ | 1.80 | | | 35 | | | <1.8 | <4.3 | 32.0 | VW25-15 |
| 4-Ethyltoluene | $ug.m^{-3}$ | 2.50 | | | 35 | | | <2.5 | <4.4 | 23.0 | VW25-18 |
| Acetone | $ug.m^{-3}$ | 9.70 | | | 35 | | | <9.7 | <49.1 | 130.0 | VW25-01 |
| Acrolein | $ug.m^{-3}$ | 1.20 | | | 35 | | | <1.2 | <3.4 | 12.0 | VW25-01 |
| Bromodichloromethane | $ug.m^{-3}$ | 3.40 | | | 35 | | | <3.4 | <5.8 | <27.2 | VW25-18 |
| Benzyl chloride | $ug.m^{-3}$ | 2.60 | | | 35 | | | <2.6 | <3.8 | <20.8 | VW25-18 |
| Benzene | $ug.m^{-3}$ | 1.00 | 5 | 30.3 | 35 | 1 | 0 | <1 | <2.1 | **11.0** | VW25-18 |
| Bromomethane | $ug.m^{-3}$ | 2.00 | | | 35 | | | <2 | <2.9 | <16 | VW25-18 |
| Cis-1,2-dichloroethene | $ug.m^{-3}$ | 2.00 | | | 35 | | | <2 | <2.9 | <16 | VW25-18 |
| Cis-1,3-dichloropropene | $ug.m^{-3}$ | 2.30 | | | 35 | | | <2.3 | <3.4 | <18.4 | VW25-18 |
| Chlorobenzene | $ug.m^{-3}$ | 2.30 | | | 35 | | | <2.3 | <3.4 | <18.4 | VW25-18 |
| Carbon tetrachloride | $ug.m^{-3}$ | 3.20 | | | 35 | | | <3.2 | <4.7 | <25.6 | VW25-18 |
| Carbon disulphide | $ug.m^{-3}$ | 9.50 | | | 35 | | | 26 | 138 | 270.0 | VW25-19A |
| Chloroethane | $ug.m^{-3}$ | 1.30 | 10,000 | 62,000 | 35 | 0 | 0 | <1.3 | <1.9 | <10.4 | VW25-18 |
| Chloroform | $ug.m^{-3}$ | 2.50 | 140 | 853 | 35 | 0 | 0 | <2.5 | <10.4 | 62.0 | VW25-08 |
| Chloromethane | $ug.m^{-3}$ | 10.40 | 18 | 55.8 | 35 | 0 | 0 | <10.4 | <15.2 | <83.2 | VW25-18 |
| Cyclohexane | $ug.m^{-3}$ | 1.80 | | | 35 | | | <1.8 | <11.1 | 230.0 | VW25-18 |
| Dibromochloromethane | $ug.m^{-3}$ | 4.30 | | | 35 | | | <4.3 | <6.3 | <34.4 | VW25-18 |
| Dichlorodifluoromethane | $ug.m^{-3}$ | 2.50 | | | 35 | | | <2.5 | <4.3 | <20 | VW25-18 |
| Dichlomethane | $ug.m^{-3}$ | 24.80 | | | 35 | | | <24.8 | <38 | <198.4 | VW25-18 |
| Dichlorotetrafluoroethane | $ug.m^{-3}$ | 3.60 | | | 35 | | | <3.6 | <5.2 | <28.8 | VW25-18 |
| Ethyl acetate | $ug.m^{-3}$ | 1.80 | | | 35 | | | <1.8 | <2.7 | <14.4 | VW25-18 |
| Ethylbenzene | $ug.m^{-3}$ | 1.30 | 770 | 4,730 | 35 | 0 | 0 | <1.3 | <5.3 | 61.0 | VW25-18 |
| Ethanol | $ug.m^{-3}$ | 20.00 | | | 35 | | | <5.8 | <31.7 | 230.0 | VW25-01 |
| Hexachlorobutadiene | $ug.m^{-3}$ | 5.40 | | | 35 | | | <5.4 | <7.9 | <43.2 | VW25-18 |
| Heptane | $ug.m^{-3}$ | 2.10 | 18,400 | 54,300 | 35 | 0 | 0 | <2.1 | <3.1 | <16.8 | VW25-18 |
| Hexane | $ug.m^{-3}$ | 10.80 | 1,000 | 3,150 | 35 | 0 | 0 | <10.8 | <16.7 | <86.4 | VW25-18 |
| Isopropyl alcohol | $ug.m^{-3}$ | 5.00 | | | 35 | | | <5 | <13.2 | 43.0 | VW25-13 |
| 2-Hexanone (MBK) | $ug.m^{-3}$ | 2.10 | | | 35 | | | <2.1 | <4.7 | 32.0 | VW25-15 |
| MEK | $ug.m^{-3}$ | 1.50 | | | 35 | | | <2.5 | <8.4 | 28.0 | VW25-01 |
| Methyl methacrylate | $ug.m^{-3}$ | 2.10 | | | 35 | | | <2.1 | <3.1 | <16.8 | VW25-18 |
| MIBK | $ug.m^{-3}$ | 2.10 | | | 35 | | | <2.1 | <3.1 | <16.8 | VW25-18 |
| MTBE | $ug.m^{-3}$ | 1.80 | | | 35 | | | <1.8 | <2.6 | <14.4 | VW25-18 |
| O-xylene | $ug.m^{-3}$ | 1.30 | 200 | 1,260 | 35 | 0 | 0 | <1.3 | <2.4 | 12.0 | VW25-18 |
| M/p-xylene | $ug.m^{-3}$ | 1.30 | 200 | 1,260 | 35 | 0 | 0 | <1.3 | <6.8 | 33.0 | VW25-18 |
| Propene | $ug.m^{-3}$ | 0.90 | | | 35 | | | <0.9 | <6.1 | 42.0 | VW25-08 |
| Styrene | $ug.m^{-3}$ | 2.20 | 850 | 5210 | 35 | 0 | 0 | <2.2 | <38.2 | 120.0 | VW25-18 |
| Trans-1,2-dichloroethene | $ug.m^{-3}$ | 2.00 | | | 35 | | | <2 | <2.9 | <16 | VW25-18 |
| Trans-1,3-dichloropropene | $ug.m^{-3}$ | 2.30 | | | 35 | | | <2.3 | <3.4 | <18.4 | VW25-18 |
| Bromoform | $ug.m^{-3}$ | 5.30 | | | 35 | | | <5.3 | <7.7 | <42.4 | VW25-18 |
| Trichloroethene | $ug.m^{-3}$ | 2.70 | 5.6 | 113 | 35 | 1 | 0 | <2.7 | <4.1 | **<21.6** | VW25-18 |
| Trichlorofluoromethane | $ug.m^{-3}$ | 2.90 | | | 35 | | | <2.9 | <30.8 | 270.0 | VW25-13 |
| Trichlorotrifluoroethane | $ug.m^{-3}$ | 3.90 | | | 35 | | | <3.9 | <5.7 | <31.2 | VW25-18 |
| Tetrachloroethene | $ug.m^{-3}$ | 3.50 | 200 | 1180 | 35 | 0 | 0 | <3.5 | <6.1 | <28 | VW25-18 |
| THF | $ug.m^{-3}$ | 1.50 | | | 35 | | | <1.5 | <5.6 | 57.0 | VW25-25 |
| 1,3,5-Trimethylbenzene | $ug.m^{-3}$ | 2.50 | | | 35 | | | <2.5 | <3.6 | <20 | VW25-18 |
| Toluene | $ug.m^{-3}$ | 1.20 | 5000 | 30200 | 35 | 0 | 0 | 1.5 | 6.8 | 16.0 | VW25-17 |
| Vinyl acetate | $ug.m^{-3}$ | 1.80 | | | 35 | | | <1.8 | <2.6 | <14.4 | VW25-18 |
| Vinyl chloride | $ug.m^{-3}$ | **1.30** | 1 | 6.1 | 35 | 0 | 0 | **<1.3** | **<1.9** | <10.4 | VW25-18 |
| Naphthalene | $ug.m^{-3}$ | 2.70 | 3 | 17.8 | 35 | 0 | 0 | <2.7 | **<3.9** | <21.6 | VW25-18 |
| TPH Aliphatic C5-C6 | $ug.m^{-3}$ | 30.00 | 18400 | 54300 | 35 | 0 | 0 | <30 | <53.1 | 360.0 | VW25-18 |
| TPH Aliphatic C6-C8 | $ug.m^{-3}$ | 30.00 | 18400 | 54300 | 35 | 0 | 0 | <30 | <203 | 2700.0 | VW25-18 |
| TPH Aliphatic C8-C10 | $ug.m^{-3}$ | 30.00 | 1000 | 3150 | 35 | 2 | 1 | <30 | <596.6 | 9800.0 | VW25-18 |
| TPH Aromatic C6-C7 | $ug.m^{-3}$ | 30.00 | | | 35 | | | <30 | <36.9 | <30 | n/a |
| TPH Aromatic C7-C8 | $ug.m^{-3}$ | 30.00 | | | 35 | | | <30 | <36.9 | <30 | n/a |
| TPH Aromatic C8-C10 | $ug.m^{-3}$ | 30.00 | | | 35 | | | <30 | <64.5 | 250.0 | VW25-18 |
| TPH >C10-C12 | $ug.m^{-3}$ | 30.00 | | | 35 | | | <30 | <714 | 10000.0 | VW25-18 |
| PRO C5-C12 | $ug.m^{-3}$ | 30.00 | | | 35 | | | 110 | 1644.3 | 24000.0 | VW25-18 |
| TPH >C5-C6 | $ug.m^{-3}$ | 30.00 | | | 35 | | | <30 | <53.1 | 360.0 | VW25-18 |
| TPH >C6-C8 | $ug.m^{-3}$ | 30.00 | | | 35 | | | <30 | <209.7 | 2700.0 | VW25-18 |
| TPH >C8-C10 | $ug.m^{-3}$ | 30.00 | | | 35 | | | 35 | 648.5 | 10000.0 | VW25-18 |

| Area B | Refuse tip | Refuse tip | Refuse tip | Settling Tanks | Settling Tanks | GH2 | GH2 | GH2 | GH3 | GH3 | GH3 | Benzol Washer |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | VW25-20A | VW25-20A | VW25-20A | VW25-22 | VW25-22 | VW25-14 | VW25-14 | VW25-14 | VW25-11A | VW25-11A | VW25-11A | VW25-18 |
| Monitoring Round No. | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 |
| Date Sampled | 17/03/2025 | 07/04/2025 | 28/04/2025 | 07/04/2025 | 28/04/2025 | 19/03/2025 | 08/04/2025 | 07/05/2025 | 17/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 |
| Strata | Made Ground | | | Made Ground | | Made Ground | | | Made Ground | | | Made Ground |
| 1,1,1-Trichloroethane | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 |
| 1,1,2,2-Tetrachloroethane | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 |
| 1,1,2-Trichloroethane | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 |
| 1,1-Dichloroethene | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,1-Dichloroethane | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| 1,2,4-Trichlorobenzene | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 |
| 1,2,4-Trimethylbenzene | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | 4.2 | 44 |
| 1,2-Dibromoethane | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 |
| 1,2-Dichlorobenzene | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| 1,2-Dichloroethane | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichloropropane | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 |
| 1,3-Butadiene | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 1,3-Dichlorobenzene | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| 1,4-Dichlorobenzene | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| 1,4-Dioxane | < 1.8 | < 1.8 | 1.9 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 2.6 | 2.7 | 9.7 | 3.7 |
| 4-Ethyltoluene | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | 2.6 | 23 |
| Acetone | 35 | 20 | 27 | 16 | 45 | 66 | 35 | 22 | 37 | 19 | 73 | 29 |
| Acrolein | < 1.2 | 2.9 | 3.7 | < 1.2 | 4 | < 1.2 | 4 | < 1.2 | < 1.2 | 3.1 | 5.2 | < 1.2 |
| Bromodichloromethane | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | 6 | 4.6 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 |
| Benzyl chloride | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 |
| Benzene | 1.1 | < 1 | 1.2 | < 1 | 1.2 | 1.1 | 3.8 | < 1 | < 1 | < 1 | 2.1 | 4 |
| Bromomethane | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Cis-1,2-dichloroethene | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Cis-1,3-dichloropropene | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| Chlorobenzene | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| Carbon tetrachloride | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 |
| Carbon disulphide | 100 | 90 | 95 | 160 | 130 | 120 | 100 | 26 | 59 | 51 | 120 | 45 |
| Chloroethane | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 |
| Chloroform | < 2.5 | < 2.5 | 2.5 | < 2.5 | < 2.5 | 26 | 19 | 4.1 | 2.9 | 2.6 | < 2.5 | < 2.5 |
| Chloromethane | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 |
| Cyclohexane | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 23 |
| Dibromochloromethane | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 |
| Dichlorodifluoromethane | < 2.5 | < 2.5 | < 2.5 | < 2.5 | 2.6 | < 2.5 | 2.5 | < 2.5 | < 2.5 | < 2.5 | 2.6 | < 2.5 |
| Dichlomethane | < 24.8 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | < 24.8 |
| Dichlorotetrafluoroethane | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 |
| Ethyl acetate | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Ethylbenzene | < 1.3 | 1.7 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | 1.7 | 38 |
| Ethanol | 8.8 | < 5.8 | 12 | < 5.8 | 66 | 8.7 | < 5.8 | < 5.8 | 6.9 | < 5.8 | 71 | 6.4 |
| Hexachlorobutadiene | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 |
| Heptane | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| Hexane | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 |
| Isopropyl alcohol | 8.5 | < 5 | 5.4 | < 5 | 15 | 10 | < 5 | < 5 | < 5 | < 5 | 17 | < 5 |
| 2-Hexanone (MBK) | < 2.1 | < 2.1 | < 2.1 | < 2.1 | 2.1 | 5.4 | < 2.1 | < 2.1 | 4.2 | < 2.1 | < 2.1 | 5.7 |
| MEK | 7.2 | 4.8 | 5.7 | 3.2 | 7 | 8.4 | 3.3 | 2.6 | 5.6 | 4.1 | 8.9 | 3.9 |
| Methyl methacrylate | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| MIBK | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| MTBE | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| O-xylene | < 1.3 | < 1.3 | 1.3 | < 1.3 | 1.5 | < 1.3 | 1.7 | < 1.3 | < 1.3 | < 1.3 | 2.7 | < 1.3 |
| M/p-xylene | 1.7 | 6.4 | 4.1 | 2.6 | 3.9 | 1.3 | 5.1 | 3 | 1.9 | 3.4 | 8.8 | 15 |
| Propene | 13 | < 0.9 | < 0.9 | 1.9 | 2.3 | 16 | 6.4 | < 0.9 | 9.5 | 3.8 | < 0.9 | 1.4 |
| Styrene | < 2.2 | 23 | 57 | 22 | 24 | < 2.2 | 54 | 2.8 | 9.6 | 21 | 93 | 35 |
| Trans-1,2-dichloroethene | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Trans-1,3-dichloropropene | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| Bromoform | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 |
| Trichloroethene | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 |
| Trichlorofluoromethane | < 2.9 | < 2.9 | < 2.9 | < 2.9 | 5.6 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 |
| Trichlorotrifluoroethane | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 |
| Tetrachloroethene | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 |
| THF | < 1.5 | < 1.5 | 1.6 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | 3.2 | < 1.5 |
| 1,3,5-Trimethylbenzene | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| Toluene | 2.7 | 3.3 | 5.4 | 2.7 | 3.4 | 2.7 | 6 | 13 | 2 | 3 | 8.1 | 3.8 |
| Vinyl acetate | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Vinyl chloride | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** |
| Naphthalene | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 |
| TPH Aliphatic C5-C6 | 35 | < 30 | 30 | < 30 | 48 | < 30 | < 30 | < 30 | < 30 | < 30 | 35 | < 30 |
| TPH Aliphatic C6-C8 | 78 | 41 | 95 | < 30 | 32 | 37 | 62 | < 30 | < 30 | 35 | 76 | 110 |
| TPH Aliphatic C8-C10 | 70 | 110 | 330 | 62 | 120 | 74 | 120 | < 30 | 170 | 87 | 590 | 1000 |
| TPH Aromatic C6-C7 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 |
| TPH Aromatic C7-C8 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 |
| TPH Aromatic C8-C10 | < 30 | 33 | 64 | < 30 | 33 | < 30 | 64 | < 30 | < 30 | < 30 | 110 | 66 |
| TPH >C10-C12 | 51 | 39 | 250 | < 30 | 110 | 79 | 110 | < 30 | 240 | 66 | 230 | 6200 |
| PRO C5-C12 | 240 | 240 | 780 | 140 | 360 | 210 | 380 | 110 | 460 | 220 | 1100 | 7500 |
| TPH >C5-C6 | 35 | < 30 | 30 | < 30 | 48 | < 30 | < 30 | < 30 | < 30 | < 30 | 35 | < 30 |
| TPH >C6-C8 | 82 | 45 | 100 | < 30 | 37 | 41 | 72 | 39 | < 30 | 39 | 87 | 120 |
| TPH >C8-C10 | 74 | 140 | 400 | 89 | 150 | 78 | 190 | 37 | 190 | 120 | 700 | 1100 |

| Area B | Benzol Washer | Benzol Washer | Primary Purifiers | Primary Purifiers | Primary Purifiers | Boiler House | Boiler House | Exhauster house | Exhauster house | Exhauster house | Former Feature | Former Feature |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | VW25-18 | VW25-18 | VW25-01 | VW25-01 | VW25-01 | VW25-25 | VW25-25 | VW25-12 | VW25-12 | VW25-12 | VW25-16A | VW25-16A |
| Monitoring Round No. | 2 | 3 | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 3 | 1 | 2 |
| Date Sampled | 08/04/2025 | 29/04/2025 | 18/03/2025 | 09/04/2025 | 28/04/2025 | 08/04/2025 | 29/04/2025 | 19/03/2025 | 09/04/2025 | 07/05/2025 | 19/03/2025 | 09/04/2025 |
| Strata | (Made Ground) | | Made Ground | | | Wolston Sand & Gravel | | Made Ground | | | Made Ground / Bould | |
| 1,1,1-Trichloroethane | <22.4 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 |
| 1,1,2,2-Tetrachloroethane | <28 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 |
| 1,1,2-Trichloroethane | <22.4 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 |
| 1,1-Dichloroethene | <16 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,1-Dichloroethane | <16.8 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| 1,2,4-Trichlorobenzene | <30.4 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 |
| 1,2,4-Trimethylbenzene | 43 | **20** | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| 1,2-Dibromoethane | <31.2 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 |
| 1,2-Dichlorobenzene | <24.8 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| 1,2-Dichloroethane | <16 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 1,2-Dichloropropane | <19.2 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 |
| 1,3-Butadiene | <8.8 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 1,3-Dichlorobenzene | <24.8 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| 1,4-Dichlorobenzene | <24.8 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| 1,4-Dioxane | <14.4 | 8.7 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 2.5 | < 1.8 |
| 4-Ethyltoluene | <20 | 8 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| Acetone | <77.6 | 120 | 44 | 16 | 130 | 15 | 22 | 46 | 24 | 29 | 100 | 14 |
| Acrolein | <9.6 | 8.5 | 2.3 | 2.6 | 12 | 2.6 | 1.9 | 2.5 | < 1.2 | < 1.2 | 4.3 | < 1.2 |
| Bromodichloromethane | <27.2 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | 6.2 | 4.9 | < 3.4 | < 3.4 | < 3.4 |
| Benzyl chloride | <20.8 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 |
| Benzene | **11** | 4.9 | < 1 | < 1 | 1.5 | 1.7 | 2.4 | < 1 | < 1 | 1.2 | < 1 | < 1 |
| Bromomethane | <16 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Cis-1,2-dichloroethene | <16 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Cis-1,3-dichloropropene | <18.4 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| Chlorobenzene | <18.4 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| Carbon tetrachloride | <25.6 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 |
| Carbon disulphide | 170 | 120 | 75 | 120 | 130 | 220 | 220 | 110 | 81 | 81 | 140 | 110 |
| Chloroethane | <10.4 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 |
| Chloroform | <20 | < 2.5 | 2.7 | < 2.5 | 2.6 | < 2.5 | < 2.5 | 20 | 13 | 7.5 | 4.2 | 7.6 |
| Chloromethane | <83.2 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 |
| Cyclohexane | 230 | 48 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Dibromochloromethane | <34.4 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 |
| Dichlorodifluoromethane | <20 | 2.9 | 8.7 | 9.8 | 10 | < 2.5 | 2.9 | 2.6 | 2.6 | < 2.5 | < 2.5 | 2.7 |
| Dichlomethane | <198.4 | 31 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | 54 | < 24.8 | < 24.8 | < 24.8 | < 24.8 |
| Dichlorotetrafluoroethane | <28.8 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 |
| Ethyl acetate | <14.4 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 4.6 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Ethylbenzene | 61 | 22 | < 1.3 | < 1.3 | 2.1 | < 1.3 | 1.5 | 1.8 | < 1.3 | 1.8 | < 1.3 | < 1.3 |
| Ethanol | <46.4 | 75 | 26 | 140 | 230 | < 5.8 | < 5.8 | 19 | < 5.8 | < 5.8 | 12 | < 5.8 |
| Hexachlorobutadiene | <43.2 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 |
| Heptane | <16.8 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| Hexane | <86.4 | 27 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | 13 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 |
| Isopropyl alcohol | <40 | 19 | 17 | < 5 | 5.7 | < 5 | < 5 | 18 | < 5 | < 5 | 16 | < 5 |
| 2-Hexanone (MBK) | <16.8 | 5.9 | < 2.1 | < 2.1 | 7.7 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | 9.9 | < 2.1 |
| MEK | <12 | 17 | 4.2 | 2.5 | 28 | 4.6 | 6 | 5.4 | 3.2 | 5.2 | 14 | 3.6 |
| Methyl methacrylate | <16.8 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| MIBK | <16.8 | < 2.1 | < 2.1 | < 2.1 | 2.6 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| MTBE | <14.4 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| O-xylene | 12 | 6.4 | < 1.3 | < 1.3 | 2.9 | 1.8 | 1.9 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 |
| M/p-xylene | 33 | 12 | < 1.3 | 1.5 | 7 | 5.9 | 7.5 | 5.8 | 3.7 | 2.9 | 2 | 3.1 |
| Propene | 11 | 14 | 2.4 | < 0.9 | 3.8 | 1.5 | 1.7 | 2.3 | < 0.9 | < 0.9 | 2.7 | < 0.9 |
| Styrene | 120 | 91 | 3.8 | 7.9 | 10 | 69 | 71 | 2.8 | 15 | 16 | 4.7 | 29 |
| Trans-1,2-dichloroethene | <16 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Trans-1,3-dichloropropene | <18.4 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| Bromoform | <42.4 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 |
| Trichloroethene | **<21.6** | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 |
| Trichlorofluoromethane | <23.2 | 3.2 | 19 | 14 | 15 | < 2.9 | < 2.9 | 79 | 85 | 58 | < 2.9 | < 2.9 |
| Trichlorotrifluoroethane | <31.2 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 |
| Tetrachloroethene | <28 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | 3.6 | < 3.5 | < 3.5 | < 3.5 | 7.9 | 9.1 |
| THF | <12 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | 57 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 |
| 1,3,5-Trimethylbenzene | <20 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| Toluene | 14 | 8.7 | 1.9 | 1.9 | 6.4 | 6.4 | 8.5 | 3.1 | 2.5 | 5.1 | 3.2 | 4 |
| Vinyl acetate | <14.4 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Vinyl chloride | <10.4 | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** |
| Naphthalene | <21.6 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 |
| TPH Aliphatic C5-C6 | 360 | 130 | < 30 | < 30 | < 30 | < 30 | 44 | < 30 | < 30 | 49 | < 30 | < 30 |
| TPH Aliphatic C6-C8 | 2700 | 920 | < 30 | < 30 | 160 | 150 | 260 | < 30 | 97 | 75 | 44 | 34 |
| TPH Aliphatic C8-C10 | 9800 | 990 | 50 | 61 | 280 | 870 | 480 | 53 | 150 | 110 | 130 | 120 |
| TPH Aromatic C6-C7 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 |
| TPH Aromatic C7-C8 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 |
| TPH Aromatic C8-C10 | 250 | 200 | < 30 | < 30 | < 30 | 80 | 85 | < 30 | < 30 | < 30 | < 30 | 34 |
| TPH >C10-C12 | 10000 | 3900 | 33 | 31 | 240 | 160 | 120 | 110 | 100 | 110 | 190 | 100 |
| PRO C5-C12 | 24000 | 6200 | 110 | 130 | 750 | 1300 | 1000 | 220 | 390 | 370 | 390 | 320 |
| TPH >C5-C6 | 360 | 130 | < 30 | < 30 | < 30 | < 30 | 44 | < 30 | < 30 | 49 | < 30 | < 30 |
| TPH >C6-C8 | 2700 | 930 | < 30 | < 30 | 170 | 160 | 270 | < 30 | 100 | 76 | 48 | 39 |
| TPH >C8-C10 | 10000 | 1200 | 56 | 72 | 310 | 950 | 560 | 64 | 180 | 130 | 130 | 160 |

CREATE TABLE 44

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Residential | CRITERIA 2 Commercial | No. Analyses | EXCEEDS BOTH CRITERIA 1 Exceedances | EXCEEDS BOTH CRITERIA 2 Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug.m-3 | 2.80 | - | 113 | 35 | 0 | 0 | <2.8 | <4.1 | <22.4 | VW25-18 |
| 1,1,2,2-Tetrachloroethane | ug.m-3 | 3.50 | | | 35 | | | <3.5 | <5.1 | <28 | VW25-18 |
| 1,1,2-Trichloroethane | ug.m-3 | 2.80 | | | 35 | | | <2.8 | <4.1 | <22.4 | VW25-18 |
| 1,1-Dichloroethene | ug.m-3 | 2.00 | | | 35 | | | <2 | <2.9 | <16 | VW25-18 |
| 1,1-Dichloroethane | ug.m-3 | 2.10 | | | 35 | | | <2.1 | <3.1 | <16.8 | VW25-18 |
| 1,2,4-Trichlorobenzene | ug.m-3 | 3.80 | | | 35 | | | <3.8 | <5.5 | <30.4 | VW25-18 |
| 1,2,4-Trimethylbenzene | ug.m-3 | 2.50 | 7 | 21.7 | 35 | 3 | 2 | <2.5 | <6.1 | 44.0 | VW25-18 |
| 1,2-Dibromoethane | ug.m-3 | 3.90 | | | 35 | | | <3.9 | <5.7 | <31.2 | VW25-18 |
| 1,2-Dichlorobenzene | ug.m-3 | 3.10 | 35.6 | 882 | 35 | 0 | 0 | <3.1 | <4.5 | <24.8 | VW25-18 |
| 1,2-Dichloroethane | ug.m-3 | 2.00 | | | 35 | | | <2 | <2.9 | <16 | VW25-18 |
| 1,2-Dichloropropane | ug.m-3 | 2.40 | | | 35 | | | <2.4 | <3.5 | <19.2 | VW25-18 |
| 1,3-Butadiene | ug.m-3 | 1.10 | | | 35 | | | <1.1 | <1.6 | <8.8 | VW25-18 |
| 1,3-Dichlorobenzene | ug.m-3 | 3.10 | | | 35 | | | <3.1 | <4.5 | <24.8 | VW25-18 |
| 1,4-Dichlorobenzene | ug.m-3 | 3.10 | | | 35 | | | <3.1 | <4.5 | <24.8 | VW25-18 |
| 1,4-Dioxane | ug.m-3 | 1.80 | | | 35 | | | <1.8 | <4.3 | 32.0 | VW25-15 |
| 4-Ethyltoluene | ug.m-3 | 2.50 | | | 35 | | | <2.5 | <4.4 | 23.0 | VW25-18 |
| Acetone | ug.m-3 | 9.70 | | | 35 | | | <9.7 | <49.1 | 130.0 | VW25-01 |
| Acrolein | ug.m-3 | 1.20 | | | 35 | | | <1.2 | <3.4 | 12.0 | VW25-01 |
| Bromodichloromethane | ug.m-3 | 3.40 | | | 35 | | | <3.4 | <5.8 | <27.2 | VW25-18 |
| Benzyl chloride | ug.m-3 | 2.60 | | | 35 | | | <2.6 | <3.8 | <20.8 | VW25-18 |
| Benzene | ug.m-3 | 1.00 | 5 | 30.3 | 35 | 1 | 0 | <1 | <2.1 | **11.0** | VW25-18 |
| Bromomethane | ug.m-3 | 2.00 | | | 35 | | | <2 | <2.9 | <16 | VW25-18 |
| Cis-1,2-dichloroethene | ug.m-3 | 2.00 | | | 35 | | | <2 | <2.9 | <16 | VW25-18 |
| Cis-1,3-dichloropropene | ug.m-3 | 2.30 | | | 35 | | | <2.3 | <3.4 | <18.4 | VW25-18 |
| Chlorobenzene | ug.m-3 | 2.30 | | | 35 | | | <2.3 | <3.4 | <18.4 | VW25-18 |
| Carbon tetrachloride | ug.m-3 | 3.20 | | | 35 | | | <3.2 | <4.7 | <25.6 | VW25-18 |
| Carbon disulphide | ug.m-3 | 9.50 | | | 35 | | | 26 | 138 | 270.0 | VW25-19A |
| Chloroethane | ug.m-3 | 1.30 | 10,000 | 62,000 | 35 | 0 | 0 | <1.3 | <1.9 | <10.4 | VW25-18 |
| Chloroform | ug.m-3 | 2.50 | 140 | 853 | 35 | 0 | 0 | <2.5 | <10.4 | 62.0 | VW25-08 |
| Chloromethane | ug.m-3 | 10.40 | 18 | 55.8 | 35 | 0 | 0 | <10.4 | <15.2 | <83.2 | VW25-18 |
| Cyclohexane | ug.m-3 | 1.80 | | | 35 | | | <1.8 | <11.1 | 230.0 | VW25-18 |
| Dibromochloromethane | ug.m-3 | 4.30 | | | 35 | | | <4.3 | <6.3 | <34.4 | VW25-18 |
| Dichlorodifluoromethane | ug.m-3 | 2.50 | | | 35 | | | <2.5 | <4.3 | <20 | VW25-18 |
| Dichlomethane | ug.m-3 | 24.80 | | | 35 | | | <24.8 | <38 | <198.4 | VW25-18 |
| Dichlorotetrafluoroethane | ug.m-3 | 3.60 | | | 35 | | | <3.6 | <5.2 | <28.8 | VW25-18 |
| Ethyl acetate | ug.m-3 | 1.80 | | | 35 | | | <1.8 | <2.7 | <14.4 | VW25-18 |
| Ethylbenzene | ug.m-3 | 1.30 | 770 | 4,730 | 35 | 0 | 0 | <1.3 | <5.3 | 61.0 | VW25-18 |
| Ethanol | ug.m-3 | 20.00 | | | 35 | | | <5.8 | <31.7 | 230.0 | VW25-01 |
| Hexachlorobutadiene | ug.m-3 | 5.40 | | | 35 | | | <5.4 | <7.9 | <43.2 | VW25-18 |
| Heptane | ug.m-3 | 2.10 | 18,400 | 54,300 | 35 | 0 | 0 | <2.1 | <3.1 | <16.8 | VW25-18 |
| Hexane | ug.m-3 | 10.80 | 1,000 | 3,150 | 35 | 0 | 0 | <10.8 | <16.7 | <86.4 | VW25-18 |
| Isopropyl alcohol | ug.m-3 | 5.00 | | | 35 | | | <5 | <13.2 | 43.0 | VW25-13 |
| 2-Hexanone (MBK) | ug.m-3 | 2.10 | | | 35 | | | <2.1 | <4.7 | 32.0 | VW25-15 |
| MEK | ug.m-3 | 1.50 | | | 35 | | | <2.5 | <8.4 | 28.0 | VW25-01 |
| Methyl methacrylate | ug.m-3 | 2.10 | | | 35 | | | <2.1 | <3.1 | <16.8 | VW25-18 |
| MIBK | ug.m-3 | 2.10 | | | 35 | | | <2.1 | <3.1 | <16.8 | VW25-18 |
| MTBE | ug.m-3 | 1.80 | | | 35 | | | <1.8 | <2.6 | <14.4 | VW25-18 |
| O-xylene | ug.m-3 | 1.30 | 200 | 1,260 | 35 | 0 | 0 | <1.3 | <2.4 | 12.0 | VW25-18 |
| M/p-xylene | ug.m-3 | 1.30 | 200 | 1,260 | 35 | 0 | 0 | <1.3 | <6.8 | 33.0 | VW25-18 |
| Propene | ug.m-3 | 0.90 | | | 35 | | | <0.9 | <6.1 | 42.0 | VW25-08 |
| Styrene | ug.m-3 | 2.20 | 850 | 5210 | 35 | 0 | 0 | <2.2 | <38.2 | 120.0 | VW25-18 |
| Trans-1,2-dichloroethene | ug.m-3 | 2.00 | | | 35 | | | <2 | <2.9 | <16 | VW25-18 |
| Trans-1,3-dichloropropene | ug.m-3 | 2.30 | | | 35 | | | <2.3 | <3.4 | <18.4 | VW25-18 |
| Bromoform | ug.m-3 | 5.30 | | | 35 | | | <5.3 | <7.7 | <42.4 | VW25-18 |
| Trichloroethene | ug.m-3 | 2.70 | 5.6 | 113 | 35 | 1 | 0 | <2.7 | <4.1 | **<21.6** | VW25-18 |
| Trichlorofluoromethane | ug.m-3 | 2.90 | | | 35 | | | <2.9 | <30.8 | 270.0 | VW25-13 |
| Trichlorotrifluoroethane | ug.m-3 | 3.90 | | | 35 | | | <3.9 | <5.7 | <31.2 | VW25-18 |
| Tetrachloroethene | ug.m-3 | 3.50 | 200 | 1180 | 35 | 0 | 0 | <3.5 | <6.1 | <28 | VW25-18 |
| THF | ug.m-3 | 1.50 | | | 35 | | | <1.5 | <5.6 | 57.0 | VW25-25 |
| 1,3,5-Trimethylbenzene | ug.m-3 | 2.50 | | | 35 | | | <2.5 | <3.6 | <20 | VW25-18 |
| Toluene | ug.m-3 | 1.20 | 5000 | 30200 | 35 | 0 | 0 | 1.5 | 6.8 | 16.0 | VW25-17 |
| Vinyl acetate | ug.m-3 | 1.80 | | | 35 | | | <1.8 | <2.6 | <14.4 | VW25-18 |
| Vinyl chloride | ug.m-3 | **1.30** | 1 | 6.1 | 35 | 0 | 0 | **<1.3** | **<1.9** | <10.4 | VW25-18 |
| Naphthalene | ug.m-3 | 2.70 | 3 | 17.8 | 35 | 0 | 0 | <2.7 | **<3.9** | <21.6 | VW25-18 |
| TPH Aliphatic C5-C6 | ug.m-3 | 30.00 | 18400 | 54300 | 35 | 0 | 0 | <30 | <53.1 | 360.0 | VW25-18 |
| TPH Aliphatic C6-C8 | ug.m-3 | 30.00 | 18400 | 54300 | 35 | 0 | 0 | <30 | <203 | 2700.0 | VW25-18 |
| TPH Aliphatic C8-C10 | ug.m-3 | 30.00 | 1000 | 3150 | 35 | 2 | 1 | <30 | <596.6 | 9800.0 | VW25-18 |
| TPH Aromatic C6-C7 | ug.m-3 | 30.00 | | | 35 | | | <30 | <36.9 | <30 | n/a |
| TPH Aromatic C7-C8 | ug.m-3 | 30.00 | | | 35 | | | <30 | <36.9 | <30 | n/a |
| TPH Aromatic C8-C10 | ug.m-3 | 30.00 | | | 35 | | | <30 | <64.5 | 250.0 | VW25-18 |
| TPH >C10-C12 | ug.m-3 | 30.00 | | | 35 | | | <30 | <714 | 10000.0 | VW25-18 |
| PRO C5-C12 | ug.m-3 | 30.00 | | | 35 | | | 110 | 1644.3 | 24000.0 | VW25-18 |
| TPH >C5-C6 | ug.m-3 | 30.00 | | | 35 | | | <30 | <53.1 | 360.0 | VW25-18 |
| TPH >C6-C8 | ug.m-3 | 30.00 | | | 35 | | | <30 | <209.7 | 2700.0 | VW25-18 |
| TPH >C8-C10 | ug.m-3 | 30.00 | | | 35 | | | 35 | 648.5 | 10000.0 | VW25-18 |

| Sample Location | Area B Former Feature | Area B Former Feature | Area B Former Feature | Area B Former Feature | Area B Former Feature | Area B Former Feature | Area B Former Feature | Area B Former Feature | Area B MGR | Area B MGR | Area B MGR | Area B MGR | Area B MGR | Area B MGR | Area B MGR | Area B MGR | Area B MGR | Area B MGR | Area B MGR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VW25-16A | VW25-17 | VW25-17 | VW25-17 | VW25-17-DUP | VW25-19A | VW25-19A | VW25-19A | VW25-08 | VW25-08 | VW25-08 | VW25-13 | VW25-13 | VW25-13 | VW25-15 | VW25-15 | VW25-15 | VW25-09 | VW25-09 | VW25-09 |
| Monitoring Round No. | 3 | 1 | 2 | 3 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Date Sampled | 07/05/2025 | 19/03/2025 | 08/04/2025 | 07/05/2025 | 07/05/2025 | 18/03/2025 | 09/04/2025 | 28/04/2025 | 17/03/2025 | 08/04/2025 | 29/04/2025 | 19/03/2025 | 08/04/2025 | 07/05/2025 | 19/03/2025 | 09/04/2025 | 07/05/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 |
| | er Clay | Made Ground / Boulder Clay | | | | Made Ground | | | Made Ground | | | Made Ground | | | Made Ground/Boulder Clay | | | Made Ground | | |
| Max | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 |
| | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 |
| | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 |
| | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 |
| | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | 4.9 | < 2.5 | < 2.5 | 4 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 |
| | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 | < 2.4 |
| | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 | < 3.1 |
| | < 1.8 | < 1.8 | < 1.8 | 1.9 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 5.4 | 4.5 | 1.9 | < 1.8 | 32 | < 1.8 | < 1.8 | < 1.8 | 3.2 | 2.2 |
| | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | 4.2 | < 2.5 | < 2.5 | 2.6 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| | 15 | 28 | 19 | 18 | 17 | 29 | < 9.7 | 35 | 35 | 18 | 67 | 58 | 15 | 14 | 110 | 21 | 19 | 52 | 18 | 60 |
| | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | 1.8 | 1.3 | 3.1 | < 1.2 | 1.5 | < 1.2 | 4.1 | 1.6 | 1.3 | 5.1 | 1.7 | 1.4 | < 1.2 | < 1.2 | < 1.2 |
| | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | 15 | 7.1 | 5.7 | 7.3 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 |
| | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 |
| | < 1 | 1.5 | 1.4 | 1.4 | 1.1 | < 1 | < 1 | 1.4 | < 1 | < 1 | 2.5 | 1.5 | 1.5 | 1.7 | < 1 | 1 | < 1 | < 1 | 1 | 1.9 |
| | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| | < 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 | < 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 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| | < 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 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.2 |
| | 110 | 130 | 120 | 110 | 57 | 270 | 120 | 110 | 49 | 39 | 140 | 150 | 110 | 130 | 110 | 99 | 84 | 70 | 78 | 70 |
| | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 |
| | 4.2 | 7.5 | 14 | 5 | 3.4 | < 2.5 | < 2.5 | < 2.5 | 5 | 3 | 62 | 24 | 17 | 17 | 9.4 | 2.7 | 5.3 | 6.1 | 5.7 | 4.1 |
| | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 | < 10.4 |
| | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 12 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 1.8 | 4.6 | 2.7 |
| | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | < 4.3 |
| | < 2.5 | < 2.5 | < 2.5 | < 2.5 | 3 | < 2.5 | 2.9 | 3 | < 2.5 | 2.5 | < 2.5 | < 2.5 | 2.6 | < 2.5 | < 2.5 | 2.7 | < 2.5 | 2.6 | 2.7 | 3.1 |
| | < 24.8 | < 24.8 | 27 | < 24.8 | < 24.8 | 27 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | 45 | < 24.8 | < 24.8 | < 24.8 | < 24.8 | 31 | < 24.8 | < 24.8 | < 24.8 |
| | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 |
| | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 2.2 | < 1.8 |
| | 1.4 | < 1.3 | < 1.3 | 1.5 | < 1.3 | < 1.3 | < 1.3 | 1.7 | < 1.3 | < 1.3 | 4 | 3.9 | < 1.3 | 1.8 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | 2.4 |
| | < 5.8 | 13 | < 5.8 | < 5.8 | < 5.8 | 9.1 | < 5.8 | 11 | 9.7 | < 5.8 | 120 | 44 | < 5.8 | < 5.8 | 27 | < 5.8 | < 5.8 | < 5.8 | < 5.8 | 21 |
| | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 | < 5.4 |
| | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| | < 10.8 | < 10.8 | 14 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | 15 | < 10.8 | < 10.8 | < 10.8 | < 10.8 | 18 | < 10.8 | < 10.8 | < 10.8 |
| | < 5 | < 5 | < 5 | < 5 | < 5 | 13 | < 5 | < 5 | 12 | < 5 | 35 | 43 | < 5 | < 5 | 41 | 7.2 | < 5 | 7.8 | < 5 | 7.1 |
| | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | 32 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| | 2.8 | 2.6 | 2.7 | 3.7 | 3.9 | 3.8 | 2.5 | 7.6 | 5.3 | 4 | 21 | 9.3 | 2.6 | 2.9 | 17 | 4.1 | 3.4 | 8.5 | 3.8 | 11 |
| | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 |
| | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| | < 1.3 | < 1.3 | < 1.3 | 1.9 | < 1.3 | < 1.3 | < 1.3 | 1.9 | < 1.3 | < 1.3 | 3.8 | < 1.3 | 1.7 | 2.7 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | 2.5 |
| | 2.2 | < 1.3 | 3.5 | 4.9 | 3 | 1.5 | 3.5 | 5.5 | 1.4 | 2.5 | 9.9 | 20 | 5.2 | 10 | 2.4 | 3.9 | 2.3 | 1.5 | 4.8 | 7.4 |
| | < 0.9 | 9.6 | 8.5 | 5.4 | 1.9 | 1.4 | < 0.9 | 1.4 | 13 | < 0.9 | 42 | 6.4 | < 0.9 | < 0.9 | 2.2 | < 0.9 | < 0.9 | 5.6 | 4.7 | 4.9 |
| | 27 | 2.2 | 84 | 50 | 20 | 4.5 | 29 | 20 | < 2.2 | 14 | 6.8 | 23 | 35 | 120 | < 2.2 | 23 | 11 | < 2.2 | 61 | 13 |
| | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| | < 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 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 |
| | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | 4.3 | < 2.7 | **7.3** | < 2.7 | < 2.7 | < 2.7 |
| | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | 7.3 | 9.3 | 5.1 | < 2.9 | < 2.9 | < 2.9 | 180 | 220 | 270 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 | < 2.9 |
| | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 |
| | 13 | < 3.5 | 6 | 7.9 | 3.6 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | 6.4 | < 3.5 | 9.6 | < 3.5 | < 3.5 | < 3.5 |
| | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | 11 | < 1.5 | < 1.5 | 20 | < 1.5 | < 1.5 | < 1.5 | < 1.5 | 34 | < 1.5 |
| | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| | 6.6 | 2 | 4.6 | 16 | 12 | 2.4 | 3.9 | 8.4 | 2.4 | 2.8 | 8.6 | 6.1 | 6.1 | 6.7 | 3 | 3.5 | 6.1 | 1.5 | 3.6 | 8.6 |
| | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** | **< 1.3** |
| | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 |
| | < 30 | < 30 | 48 | < 30 | - | < 30 | < 30 | < 30 | < 30 | < 30 | 44 | 35 | < 30 | 40 | < 30 | < 30 | 47 | < 30 | < 30 | 42 |
| | < 30 | < 30 | 56 | 68 | - | < 30 | 81 | 140 | < 30 | < 30 | 290 | 320 | 150 | 270 | 53 | 56 | 32 | 39 | 85 | 130 |
| | 83 | 35 | 270 | 350 | - | 41 | 160 | 210 | 66 | 57 | 430 | 490 | 180 | 1000 | 93 | 150 | 58 | 31 | **1100** | 220 |
| | < 30 | < 30 | < 30 | < 30 | - | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 |
| | < 30 | < 30 | < 30 | < 30 | - | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 | < 30 |
| | 32 | < 30 | 89 | 59 | - | < 30 | 34 | 31 | < 30 | < 30 | 34 | 47 | 45 | 140 | < 30 | < 30 | < 30 | < 30 | 69 | < 30 |
| | 50 | 31 | 170 | 80 | - | 57 | 48 | 270 | 49 | 53 | 310 | 120 | 50 | 230 | 120 | 120 | 130 | 43 | 270 | 260 |
| | 220 | 110 | 640 | 590 | - | 160 | 390 | 680 | 140 | 150 | 1100 | 1000 | 430 | 1700 | 310 | 390 | 290 | 130 | 1500 | 700 |
| | < 30 | < 30 | 48 | < 30 | - | < 30 | < 30 | < 30 | < 30 | < 30 | 44 | 35 | < 30 | 40 | < 30 | < 30 | 47 | < 30 | < 30 | 42 |
| | 35 | 32 | 62 | 85 | - | < 30 | 85 | 150 | < 30 | < 30 | 300 | 330 | 160 | 280 | 57 | 60 | 39 | 41 | 89 | 140 |
| | 120 | 37 | 360 | 410 | - | 48 | 200 | 250 | 70 | 76 | 460 | 530 | 220 | 1100 | 99 | 180 | 72 | 35 | 1100 | 250 |

# Table C: Vapour Analytical Data - Area C

CREATE TABLE 3

| | | | | | | EXCEEDS BOTH | | | | | Sample Location | VW25-07 | VW25-07 | VW25-07 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Monitoring Round No. | 1 | 2 | 3 |
| | | | | | | | | | | | Date Sampled | 18/03/2025 | 08/04/2025 | 29/04/2025 |
| | | | CRITERIA 1 | CRITERIA 2 | | CRITERIA 1 | CRITERIA 2 | | | | Strata | Made Ground | | |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Residential** | **Commercial** | **No. Analyses** | **Exceedances** | **Exceedances** | **Min** | **Mean** | **Max** | Max ID | | | |
| 1,1,1-Trichloroethane | ug.m$^{-3}$ | 2.80 | - | 113 | 3 | 0 | 0 | <2.8 | <2.8 | <2.8 | n/a | < 2.8 | < 2.8 | < 2.8 |
| 1,1,2,2-Tetrachloroethane | ug.m$^{-3}$ | 3.50 | | | 3 | | | <3.5 | <3.5 | <3.5 | n/a | < 3.5 | < 3.5 | < 3.5 |
| 1,1,2-Trichloroethane | ug.m$^{-3}$ | 2.80 | | | 3 | | | <2.8 | <2.8 | <2.8 | n/a | < 2.8 | < 2.8 | < 2.8 |
| 1,1-Dichloroethene | ug.m$^{-3}$ | 2.00 | | | 3 | | | <2 | <2 | <2 | n/a | < 2 | < 2 | < 2 |
| 1,1-Dichloroethane | ug.m$^{-3}$ | 2.10 | | | 3 | | | <2.1 | <2.1 | <2.1 | n/a | < 2.1 | < 2.1 | < 2.1 |
| 1,2,4-Trichlorobenzene | ug.m$^{-3}$ | 3.80 | | | 3 | | | <3.8 | <3.8 | <3.8 | n/a | < 3.8 | < 3.8 | < 3.8 |
| 1,2,4-Trimethylbenzene | ug.m$^{-3}$ | 2.50 | 7 | 21.7 | 3 | 0 | 0 | <2.5 | <3.4 | 5.1 | VW25-07 | < 2.5 | 5.1 | < 2.5 |
| 1,2-Dibromoethane | ug.m$^{-3}$ | 3.90 | | | 3 | | | <3.9 | <3.9 | <3.9 | n/a | < 3.9 | < 3.9 | < 3.9 |
| 1,2-Dichlorobenzene | ug.m$^{-3}$ | 3.10 | 35.6 | 882 | 3 | 0 | 0 | <3.1 | <3.1 | <3.1 | n/a | < 3.1 | < 3.1 | < 3.1 |
| 1,2-Dichloroethane | ug.m$^{-3}$ | 2.00 | | | 3 | | | <2 | <2 | <2 | n/a | < 2 | < 2 | < 2 |
| 1,2-Dichloropropane | ug.m$^{-3}$ | 2.40 | | | 3 | | | <2.4 | <2.4 | <2.4 | n/a | < 2.4 | < 2.4 | < 2.4 |
| 1,3-Butadiene | ug.m$^{-3}$ | 1.10 | | | 3 | | | <1.1 | <1.1 | <1.1 | n/a | < 1.1 | < 1.1 | < 1.1 |
| 1,3-Dichlorobenzene | ug.m$^{-3}$ | 3.10 | | | 3 | | | <3.1 | <3.1 | <3.1 | n/a | < 3.1 | < 3.1 | < 3.1 |
| 1,4-Dichlorobenzene | ug.m$^{-3}$ | 3.10 | | | 3 | | | <3.1 | <3.1 | <3.1 | n/a | < 3.1 | < 3.1 | < 3.1 |
| 1,4-Dioxane | ug.m$^{-3}$ | 1.80 | | | 3 | | | <1.8 | <2.3 | 2.9 | VW25-07 | 2.9 | < 1.8 | 2.1 |
| 4-Ethyltoluene | ug.m$^{-3}$ | 2.50 | | | 3 | | | <2.5 | <2.8 | 3.3 | VW25-07 | < 2.5 | 3.3 | < 2.5 |
| Acetone | ug.m$^{-3}$ | 9.70 | | | 3 | | | 19 | 45.3 | 92.0 | VW25-07 | 92 | 19 | 25 |
| Acrolein | ug.m$^{-3}$ | 1.20 | | | 3 | | | 1.4 | 2 | 2.8 | VW25-07 | 2.8 | 1.4 | 1.7 |
| Bromodichloromethane | ug.m$^{-3}$ | 3.40 | | | 3 | | | <3.4 | <3.4 | <3.4 | n/a | < 3.4 | < 3.4 | < 3.4 |
| Benzyl chloride | ug.m$^{-3}$ | 2.60 | | | 3 | | | <2.6 | <2.6 | <2.6 | n/a | < 2.6 | < 2.6 | < 2.6 |
| Benzene | ug.m$^{-3}$ | 1.00 | 5 | 30.3 | 3 | 0 | 0 | <1 | <1 | 1.1 | VW25-07 | < 1 | < 1 | 1.1 |
| Bromomethane | ug.m$^{-3}$ | 2.00 | | | 3 | | | <2 | <2 | <2 | n/a | < 2 | < 2 | < 2 |
| Cis-1,2-dichloroethene | ug.m$^{-3}$ | 2.00 | | | 3 | | | <2 | <2 | <2 | n/a | < 2 | < 2 | < 2 |
| Cis-1,3-dichloropropene | ug.m$^{-3}$ | 2.30 | | | 3 | | | <2.3 | <2.3 | <2.3 | n/a | < 2.3 | < 2.3 | < 2.3 |
| Chlorobenzene | ug.m$^{-3}$ | 2.30 | | | 3 | | | <2.3 | <2.3 | <2.3 | n/a | < 2.3 | < 2.3 | < 2.3 |
| Carbon tetrachloride | ug.m$^{-3}$ | 3.20 | | | 3 | | | <3.2 | <3.2 | <3.2 | n/a | < 3.2 | < 3.2 | < 3.2 |
| Carbon disulphide | ug.m$^{-3}$ | 9.50 | | | 3 | | | 27 | 40.3 | 53.0 | VW25-07 | 41 | 27 | 53 |
| Chloroethane | ug.m$^{-3}$ | 1.30 | 10,000 | 62,000 | 3 | 0 | 0 | <1.3 | <1.3 | <1.3 | n/a | < 1.3 | < 1.3 | < 1.3 |
| Chloroform | ug.m$^{-3}$ | 2.50 | 140 | 853 | 3 | 0 | 0 | <2.5 | <3.3 | 4.5 | VW25-07 | 4.5 | 2.8 | < 2.5 |
| Chloromethane | ug.m$^{-3}$ | 10.40 | 18 | 55.8 | 3 | 0 | 0 | <10.4 | <10.4 | <10.4 | n/a | < 10.4 | < 10.4 | < 10.4 |
| Cyclohexane | ug.m$^{-3}$ | 1.80 | | | 3 | | | <1.8 | <1.8 | <1.8 | n/a | < 1.8 | < 1.8 | < 1.8 |
| Dibromochloromethane | ug.m$^{-3}$ | 4.30 | | | 3 | | | <4.3 | <4.3 | <4.3 | n/a | < 4.3 | < 4.3 | < 4.3 |
| Dichlorodifluoromethane | ug.m$^{-3}$ | 2.50 | | | 3 | | | <2.5 | <2.5 | <2.5 | n/a | < 2.5 | < 2.5 | < 2.5 |
| Dichlomethane | ug.m$^{-3}$ | 24.80 | | | 3 | | | <24.8 | <25.5 | 27.0 | VW25-07 | 27 | < 24.8 | < 24.8 |
| Dichlorotetrafluoroethane | ug.m$^{-3}$ | 3.60 | | | 3 | | | <3.6 | <3.6 | <3.6 | n/a | < 3.6 | < 3.6 | < 3.6 |
| Ethyl acetate | ug.m$^{-3}$ | 1.80 | | | 3 | | | <1.8 | <1.8 | <1.8 | n/a | < 1.8 | < 1.8 | < 1.8 |
| Ethylbenzene | ug.m$^{-3}$ | 1.30 | 770 | 4,730 | 3 | 0 | 0 | <1.3 | <1.3 | <1.3 | n/a | < 1.3 | < 1.3 | < 1.3 |
| Ethanol | ug.m$^{-3}$ | 20.00 | | | 3 | | | <5.8 | <11.5 | 23.0 | VW25-07 | 23 | < 5.8 | < 5.8 |
| Hexachlorobutadiene | ug.m$^{-3}$ | 5.40 | | | 3 | | | <5.4 | <5.4 | <5.4 | n/a | < 5.4 | < 5.4 | < 5.4 |
| Heptane | ug.m$^{-3}$ | 2.10 | 18,400 | 54,300 | 3 | 0 | 0 | <2.1 | <2.1 | <2.1 | n/a | < 2.1 | < 2.1 | < 2.1 |
| Hexane | ug.m$^{-3}$ | 10.80 | 1,000 | 3,150 | 3 | 0 | 0 | <10.8 | <14.9 | 23.0 | VW25-07 | < 10.8 | < 10.8 | 23 |
| Isopropyl alcohol | ug.m$^{-3}$ | 5.00 | | | 3 | | | <5 | <11.7 | 25.0 | VW25-07 | 25 | < 5 | < 5 |
| 2-Hexanone (MBK) | ug.m$^{-3}$ | 2.10 | | | 3 | | | <2.1 | <3.1 | 5.1 | VW25-07 | 5.1 | < 2.1 | < 2.1 |
| MEK | ug.m$^{-3}$ | 1.50 | | | 3 | | | 2.8 | 5.7 | 9.1 | VW25-07 | 9.1 | 2.8 | 5.3 |
| Methyl methacrylate | ug.m$^{-3}$ | 2.10 | | | 3 | | | <2.1 | <2.1 | <2.1 | n/a | < 2.1 | < 2.1 | < 2.1 |
| MIBK | ug.m$^{-3}$ | 2.10 | | | 3 | | | <2.1 | <2.1 | <2.1 | n/a | < 2.1 | < 2.1 | < 2.1 |
| MTBE | ug.m$^{-3}$ | 1.80 | | | 3 | | | <1.8 | <1.8 | <1.8 | n/a | < 1.8 | < 1.8 | < 1.8 |
| O-xylene | ug.m$^{-3}$ | 1.30 | 200 | 1,260 | 3 | 0 | 0 | <1.3 | <1.3 | 1.4 | VW25-07 | < 1.3 | 1.3 | 1.4 |
| M/p-xylene | ug.m$^{-3}$ | 1.30 | 200 | 1,260 | 3 | 0 | 0 | <1.3 | <2.2 | 3.4 | VW25-07 | < 1.3 | 1.9 | 3.4 |
| Propene | ug.m$^{-3}$ | 0.90 | | | 3 | | | <0.9 | <1.3 | 1.9 | VW25-07 | 1.9 | 1 | < 0.9 |
| Styrene | ug.m$^{-3}$ | 2.20 | 850 | 5210 | 3 | 0 | 0 | <2.2 | <14.4 | 31.0 | VW25-07 | < 2.2 | 10 | 31 |
| Trans-1,2-dichloroethene | ug.m$^{-3}$ | 2.00 | | | 3 | | | <2 | <2 | <2 | n/a | < 2 | < 2 | < 2 |
| Trans-1,3-dichloropropene | ug.m$^{-3}$ | 2.30 | | | 3 | | | <2.3 | <2.3 | <2.3 | n/a | < 2.3 | < 2.3 | < 2.3 |
| Bromoform | ug.m$^{-3}$ | 5.30 | | | 3 | | | <5.3 | <5.3 | <5.3 | n/a | < 5.3 | < 5.3 | < 5.3 |
| Trichloroethene | ug.m$^{-3}$ | 2.70 | 5.6 | 113 | 3 | 0 | 0 | <2.7 | <2.7 | <2.7 | n/a | < 2.7 | < 2.7 | < 2.7 |
| Trichlorofluoromethane | ug.m$^{-3}$ | 2.90 | | | 3 | | | <2.9 | <2.9 | <2.9 | n/a | < 2.9 | < 2.9 | < 2.9 |
| Trichlorotrifluoroethane | ug.m$^{-3}$ | 3.90 | | | 3 | | | <3.9 | <3.9 | <3.9 | n/a | < 3.9 | < 3.9 | < 3.9 |
| Tetrachloroethene | ug.m$^{-3}$ | 3.50 | 200 | 1180 | 3 | 0 | 0 | <3.5 | <3.5 | <3.5 | n/a | < 3.5 | < 3.5 | < 3.5 |
| THF | ug.m$^{-3}$ | 1.50 | | | 3 | | | <1.5 | <1.5 | <1.5 | n/a | < 1.5 | < 1.5 | < 1.5 |
| 1,3,5-Trimethylbenzene | ug.m$^{-3}$ | 2.50 | | | 3 | | | <2.5 | <2.5 | <2.5 | n/a | < 2.5 | < 2.5 | < 2.5 |
| Toluene | ug.m$^{-3}$ | 1.20 | 5000 | 30200 | 3 | 0 | 0 | 1.6 | 2.3 | 3.2 | VW25-07 | 1.6 | 2 | 3.2 |
| Vinyl acetate | ug.m$^{-3}$ | 1.80 | | | 3 | | | <1.8 | <1.8 | <1.8 | n/a | < 1.8 | < 1.8 | < 1.8 |
| Vinyl chloride | ug.m$^{-3}$ | **1.30** | 1 | 6.1 | 3 | 0 | 0 | **<1.3** | **<1.3** | **<1.3** | n/a | **< 1.3** | **< 1.3** | **< 1.3** |
| Naphthalene | ug.m$^{-3}$ | 2.70 | 3 | 17.8 | 3 | 0 | 0 | <2.7 | <2.7 | <2.7 | n/a | < 2.7 | < 2.7 | < 2.7 |
| TPH Aliphatic C5-C6 | ug.m$^{-3}$ | 30.00 | 18400 | 54300 | 3 | 0 | 0 | <30 | <35 | 45.0 | VW25-07 | < 30 | < 30 | 45 |
| TPH Aliphatic C6-C8 | ug.m$^{-3}$ | 30.00 | 18400 | 54300 | 3 | 0 | 0 | <30 | <45.7 | 76.0 | VW25-07 | < 30 | 31 | 76 |
| TPH Aliphatic C8-C10 | ug.m$^{-3}$ | 30.00 | 1000 | 3150 | 3 | 0 | 0 | 61 | 140.3 | 210.0 | VW25-07 | 61 | 210 | 150 |
| TPH Aromatic C6-C7 | ug.m$^{-3}$ | 30.00 | | | 3 | | | <30 | <30 | <30 | n/a | < 30 | < 30 | < 30 |
| TPH Aromatic C7-C8 | ug.m$^{-3}$ | 30.00 | | | 3 | | | <30 | <30 | <30 | n/a | < 30 | < 30 | < 30 |
| TPH Aromatic C8-C10 | ug.m$^{-3}$ | 30.00 | | | 3 | | | <30 | <32.7 | 38.0 | VW25-07 | < 30 | < 30 | 38 |
| TPH >C10-C12 | ug.m$^{-3}$ | 30.00 | | | 3 | | | 42 | 180.7 | 330.0 | VW25-07 | 42 | 330 | 170 |
| PRO C5-C12 | ug.m$^{-3}$ | 30.00 | | | 3 | | | 150 | 410 | 590.0 | VW25-07 | 150 | 590 | 490 |
| TPH >C5-C6 | ug.m$^{-3}$ | 30.00 | | | 3 | | | <30 | <35 | 45.0 | VW25-07 | < 30 | < 30 | 45 |
| TPH >C6-C8 | ug.m$^{-3}$ | 30.00 | | | 3 | | | <30 | <48.3 | 81.0 | VW25-07 | < 30 | 34 | 81 |
| TPH >C8-C10 | ug.m$^{-3}$ | 30.00 | | | 3 | | | 63 | 157.7 | 230.0 | VW25-07 | 63 | 230 | 180 |

CREATE TABLE

| Area | Area A | | | Area A | | | Area A | | | Area A | | | Area B | | | Area B | | | Area B | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Coke tip | | | Coke tip | | | Coke tip | | | Coke tip | | | Refuse tip | | | Settling Tanks | | | MGR | | |
| Sample Location | VW25-02 | | | VW25-04 | | | VW25-23 | | | VW25-23-DUP | | | VW25-20A | | | VW25-22 | | | VW25-09 | | |
| **Monitoring round 1** | 17/03/2025 | | | 17/03/2025 | | | 17/03/2025 | | | 17/03/2025 | | | 17/03/2025 | | | | | | 17/03/2025 | | |
| **Compound Name** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | | | | **Compound Name** | **% Match** | **Amount (ppbv)** |
| VOC TIC Match 1 | 0 | 0 | < 10 | **o Formic acid, ethenyl ester | 84 | 1100 | 2,2,4,6,6-pentamethyl-Heptane | 94 | 54 | 2,2,4,6,6-pentamethyl-Heptane, | 92 | 42 | 0 | 0 | < 10 | | | | 0 | 0 | < 10 |
| VOC TIC Match 2 | 0 | 0 | < 10 | **, **o 2-methyl-1-Propene, | 94 | 230 | 2-methyl-1-Propene, | 91 | 47 | 2-methyl- 1-Propene, | 89 | 39 | 0 | 0 | < 10 | | | | 0 | 0 | < 10 |
| VOC TIC Match 3 | 0 | 0 | < 10 | Octane | 96 | 45 | ** methyl-Cyclopentane, | 83 | 11 | Borane carbonyl | 81 | 13 | 0 | 0 | < 10 | | | | 0 | 0 | < 10 |
| VOC TIC Match 4 | 0 | 0 | < 10 | Pentane | 85 | 65 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | | | | 0 | 0 | < 10 |
| VOC TIC Match 5 | 0 | 0 | < 10 | 2-methyl-Butane, | 87 | 48 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | | | | 0 | 0 | < 10 |
| VOC TIC Match 6 | 0 | 0 | < 10 | Isobutane | 83 | 27 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | N/A | | | 0 | 0 | < 10 |
| VOC TIC Match 7 | 0 | 0 | < 10 | 1,1-dimethyl-Cyclopropane, | 85 | 30 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | | | | 0 | 0 | < 10 |
| VOC TIC Match 8 | 0 | 0 | < 10 | *, ** cis-,1,2-dimethyl-cyclopropane | 96 | 11 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | | | | 0 | 0 | < 10 |
| VOC TIC Match 9 | 0 | 0 | < 10 | ** 1-Hexene | 92 | 18 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | | | | 0 | 0 | < 10 |
| VOC TIC Match 10 | 0 | 0 | < 10 | methyl-Cyclopentane, | 89 | 17 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | | | | 0 | 0 | < 10 |
| **Monitoring round 2** | 07/04/2025 | | | 07/04/2025 | | | 07/04/2025 | | | 07/04/2025 | | | 07/04/2025 | | | 07/04/2025 | | | 07/04/2025 | | |
| **Compound Name** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** |
| VOC TIC Match 1 | 0 | 0 | < 10 | Octane | 98 | 170 | Heptane, 2,2,4,6,6-pentamethyl- | 96 | 24 | Heptane, 2,2,4,6,6-pentamethyl- | 96 | 19 | Dimethylamine | 87 | 31 | Dimethyl ether | 91 | 74 | Heptane, 2,2,4,6,6-pentamethyl- | 96 | 120 |
| VOC TIC Match 2 | 0 | 0 | < 10 | **, **o 2-Butene, (Z)- | 98 | 270 | ** 1-Propene, 2-methyl- | 87 | 35 | Oxalic acid | 82 | 27 | Decane | 97 | 10 | Methylal | 84 | 17 | Cyclopentanone | 94 | 14 |
| VOC TIC Match 3 | 0 | 0 | < 10 | Decane | 98 | 110 | Dimethylamine | 84 | 17 | 1-Propene, 2-methyl- | 84 | 23 | Butane | 96 | 14 | 0 | 0 | < 10 | 2,2,4,4-Tetramethyloctane | 95 | 12 |
| VOC TIC Match 4 | 0 | 0 | < 10 | Alanine | 81 | 130 | 0 | 0 | < 10 | 0 | 0 | < 10 | ** Propane, 2-nitro- | 82 | 11 | 0 | 0 | < 10 | Dimethylamine | 89 | 12 |
| VOC TIC Match 5 | 0 | 0 | < 10 | Dimethylamine | 89 | 43 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 6 | 0 | 0 | < 10 | ** Oxetane, 2,3,4-trimethyl-, | 87 | 25 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 7 | 0 | 0 | < 10 | Pentane | 91 | 61 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 8 | 0 | 0 | < 10 | Butane, 2-methyl- | 98 | 38 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 9 | 0 | 0 | < 10 | **o Heptane, 3-methyl- | 98 | 19 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 10 | 0 | 0 | < 10 | Dodecane | 97 | 13 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| **Monitoring round 3** | 28/04/2025 | | | 28/04/2025 | | | 28/04/2025 | | | | | | 28/04/2025 | | | 28/04/2025 | | | 28/04/2025 | | |
| **Compound Name** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** |
| VOC TIC Match 1 | (2) UNIDENTIFIED COMPOUND (no library match) | 0 | 400 | Octane | 98 | 180 | (2) UNIDENTIFIED COMPOUND (no library match) | 0 | 380 | | | | Decane | 97 | 18 | UNIDENTIFIED COMPOUND (no library match) | 0 | 64 | Decane | 96 | 12 |
| VOC TIC Match 2 | Cyclotetrasiloxane, octamethyl- | 94 | 25 | ** 2-Butene, (Z)- | 98 | 260 | Isobutane | 84 | 27 | | | | Cyclotrisiloxane, hexamethyl- | 92 | 12 | Cyclotrisiloxane, hexamethyl- | 92 | 11 | ND | 0 | < 10 |
| VOC TIC Match 3 | Cyclotrisiloxane, hexamethyl- | 93 | 18 | Decane | 96 | 58 | ND | 0 | < 10 | | | | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 4 | Decane | 97 | 23 | **m Heptane, 3-methyl- | 98 | 62 | ND | 0 | < 10 | | | | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 5 | ND | 0 | < 10 | Cyclotetrasiloxane, octamethyl- | 95 | 31 | ND | 0 | < 10 | N/A | | | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 6 | ND | 0 | < 10 | Cyclotrisiloxane, hexamethyl- | 93 | 31 | ND | 0 | < 10 | | | | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 7 | ND | 0 | < 10 | * 1-Butanol | 97 | 24 | ND | 0 | < 10 | | | | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 8 | ND | 0 | < 10 | Cyclopentane, methyl- | 96 | 60 | ND | 0 | < 10 | | | | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 9 | ND | 0 | < 10 | ** Decane, 2,4-dimethyl- | 95 | 13 | ND | 0 | < 10 | | | | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 10 | ND | 0 | < 10 | **, **m Heptane, 2,4-dimethyl- | 96 | 11 | ND | 0 | < 10 | | | | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |

CREATE TAI

| Area | Area B | | | Area B | | | Area B | | | Area B | | | Area B | | | Area B | | | Area B | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | GH3 | | | MGR | | | Benzol Washer | | | Primary Purifiers | | | Boiler House | | | Former Feature | | | Former Feature | | |
| Sample Location | VW25-11A | | | VW25-08 | | | VW25-18 | | | VW25-01 | | | VW25-25 | | | VW25-19A | | | VW25-17 | | |
| **Monitoring round 1** | 17/03/2025 | | | 17/03/2025 | | | 18/03/2025 | | | 18/03/2025 | | | | | | 18/03/2025 | | | 19/03/2025 | | |
| **Compound Name** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** |
| VOC TIC Match 1 | **o Heptane, 2,2,4,6,6-pentamethyl- | 88 | 21 | Cyclotrisiloxane, hexamethyl- | 92 | 15 | * Decane, 4-methyl- | 95 | 56 | ND | 0 | < 10 | | | | ND | 0 | < 10 | ** 2-Butene, (Z)- | 99 | 13 |
| VOC TIC Match 2 | Cyclotrisiloxane, hexamethyl- | 93 | 16 | **, **o 1-Propene, 2-methyl- | 81 | 17 | **, **o Benzene, 1-ethyl-3-methyl- | 85 | 58 | ND | 0 | < 10 | | | | ND | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 3 | ** 1-Propene, 2-methyl- | 98 | 11 | 0 | 0 | < 10 | **o Heptane, 3-ethyl-2-methyl- | 88 | 66 | ND | 0 | < 10 | | | | ND | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 4 | 0 | 0 | < 10 | 0 | 0 | < 10 | **, **o Indan, 1-methyl- | 86 | 83 | ND | 0 | < 10 | | | | ND | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 5 | 0 | 0 | < 10 | 0 | 0 | < 10 | *, **o Cyclohexane, (1-methylpropyl)- | 87 | 66 | ND | 0 | < 10 | | | | ND | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 6 | 0 | 0 | < 10 | 0 | 0 | < 10 | Carveol | 80 | 52 | ND | 0 | < 10 | | | | ND | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 7 | 0 | 0 | < 10 | 0 | 0 | < 10 | **, **o cis-p-mentha-1(7),8-dien-2-ol | 85 | 58 | ND | 0 | < 10 | | | | ND | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 8 | 0 | 0 | < 10 | 0 | 0 | < 10 | ** Oxirane, tetradecyl- | 86 | 30 | ND | 0 | < 10 | | | | ND | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 9 | 0 | 0 | < 10 | 0 | 0 | < 10 | *, **o Benzene, 1-methyl-4-propyl- | 93 | 49 | ND | 0 | < 10 | | | | ND | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | *, **, **o Nonane, 2,5-dimethyl- | 85 | 42 | ND | 0 | < 10 | | | | ND | 0 | < 10 | 0 | 0 | < 10 |
| **Monitoring round 2** | 08/04/2025 | | | 08/04/2025 | | | 08/04/2025 | | | 09/04/2025 | | | 08/04/2025 | | | 09/04/2025 | | | 08/04/2025 | | |
| **Compound Name** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** |
| VOC TIC Match 1 | Oxalic acid | 81 | 23 | Oxalic acid | 81 | 34 | **o Heptane, 3-ethyl-2-methyl- | 93 | 230 | Alanine | 80 | 270 | Heptane, 2,2,4,6,6-pentamethyl- | 95 | 130 | Oxalic acid | 93 | 23 | Decane | 98 | 29 |
| VOC TIC Match 2 | 0 | 0 | < 10 | 0 | 0 | < 10 | Cyclohexane, methyl- | 97 | 200 | Oxalic acid | 81 | 22 | Oxalic acid | 90 | 88 | Decane | 97 | 10 | Oxalic acid | 74 | 23 |
| VOC TIC Match 3 | 0 | 0 | < 10 | 0 | 0 | < 10 | **o Cyclohexane, 1,1,3-trimethyl- | 95 | 96 | 0 | 0 | < 10 | Octane | 97 | 18 | 0 | 0 | < 10 | 1-Propene, 2-methyl- | 99 | 18 |
| VOC TIC Match 4 | 0 | 0 | < 10 | 0 | 0 | < 10 | **o Decane | 92 | 110 | 0 | 0 | < 10 | 2,2,4,4-Tetramethyloctane | 95 | 13 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 5 | 0 | 0 | < 10 | 0 | 0 | < 10 | ** Benzene, 1-ethyl-2-methyl- | 85 | 92 | 0 | 0 | < 10 | Cyclopentanone | 94 | 11 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 6 | 0 | 0 | < 10 | 0 | 0 | < 10 | Cyclopentane, methyl- | 94 | 160 | 0 | 0 | < 10 | Methylal | 82 | 17 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 7 | 0 | 0 | < 10 | 0 | 0 | < 10 | **o 4-Isopropenylcyclohexanon | 86 | 93 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 8 | 0 | 0 | < 10 | 0 | 0 | < 10 | Oxalic acid | 93 | 94 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 9 | 0 | 0 | < 10 | 0 | 0 | < 10 | **o Cyclohexane, (1-methylpropyl)- | 88 | 100 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | Benzene, 1,2,3-trimethyl- | 71 | 120 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| **Monitoring round 3** | 29/04/2025 | | | 29/04/2025 | | | 29/04/2025 | | | 28/04/2025 | | | 29/05/25 | | | 28/04/2025 | | | 07/05/25 | | |
| **Compound Name** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** |
| VOC TIC Match 1 | (2) UNIDENTIFIED COMPOUND (no library match) | 0 | 310 | (2), ** 2-Butene, (Z)- | 98 | 570 | (2) UNIDENTIFIED COMPOUND (no library match) | 0 | 380 | Cyclotetrasiloxane, octamethyl- | 95 | 23 | UNIDENTIFIED COMPOUND (no library match) (2) | 0 | 480 | Cyclotrisiloxane, hexamethyl- | 92 | 14 | Decane | 97 | 26 |
| VOC TIC Match 2 | ** Decane, 2,5,9-trimethyl- | 94 | 42 | (2) UNIDENTIFIED COMPOUND (no library match) | 0 | 450 | **, **m Octane, 3,5-dimethyl- | 90 | 68 | Cyclotrisiloxane, hexamethyl- | 93 | 17 | Decane | 97 | 43 | Decane | 97 | 11 | *, **, **m 2-methyl-1-Propene, | 97 | 19 |
| VOC TIC Match 3 | **m Cyclopentanone | 93 | 16 | **m Decane | 96 | 40 | **m Heptane, 3-ethyl-2-methyl- | 92 | 55 | Glycidol | 90 | 24 | Octane | 98 | 28 | Octane | 97 | 10 | ND | 0 | < 10 |
| VOC TIC Match 4 | Cyclotrisiloxane, hexamethyl- | 93 | 11 | Octane | 97 | 15 | **m Cyclotrisiloxane, hexamethyl- | 92 | 38 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 5 | ND | 0 | < 10 | *, **m Carbonyl sulfide | 95 | 43 | **m Cyclotetrasiloxane, octamethyl- | 87 | 34 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 6 | ND | 0 | < 10 | Isobutane | 91 | 18 | **m Octane | 97 | 27 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 7 | ND | 0 | < 10 | ND | 0 | < 10 | **, **m 4-Isopropenylcyclohexanone | 86 | 43 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 8 | ND | 0 | < 10 | ND | 0 | < 10 | **, **m 1-Decene, 4-methyl- | 83 | 23 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 9 | ND | 0 | < 10 | ND | 0 | < 10 | **, **m Benzene, 1-ethyl-2-methyl- | 84 | 33 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 10 | ND | 0 | < 10 | ND | 0 | < 10 | *, **m Benzene, 1,2,3-trimethyl- | 93 | 24 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |

N/A

CREATE TAI

| Area | Area B | | | Area B | | | Area B | | | Area B | | | Area B | | | Area C | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Former Feature | Former Feature | | | GH2 | | | MGR | | | Former Feature | | | MGR | | | Exhauster house | | | GH4 | | |
| Sample Location | VW25-17-DUP | | | VW25-14 | | | VW25-15 | | | VW25-16A | | | VW25-13 | | | VW25-12 | | | VW25-07 | | |
| **Monitoring round 1** | | | | 19/03/2025 | | | 19/03/2025 | | | 19/03/2025 | | | 19/03/2025 | | | 19/03/2025 | | | 18/03/2025 | | |
| **Compound Name** | | | | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** |
| VOC TIC Match 1 | | | | 1-Octyn-3-ol, 4-ethyl- | 86 | 12 | Cyclotrisiloxane, hexamethyl- | 92 | 38 | Cyclotetrasiloxane, octamethyl- | 94 | 26 | Heptane, 2,2,4,6,6-pentamethyl- | 91 | 31 | 0 | 0 | < 10 | Cyclotrisiloxane, hexamethyl- | 92 | 15 |
| VOC TIC Match 2 | | | | 0 | 0 | < 10 | Cyclotetrasiloxane, octamethyl- | 94 | 16 | Cyclotrisiloxane, hexamethyl- | 92 | 13 | ** Hexane, 2,3,4-trimethyl- | 87 | 24 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 3 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | **, **o Heptane, 2,2,4,6,6-pentamethyl- | 86 | 13 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 4 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 5 | N/A | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 6 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 7 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 8 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 9 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 10 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| **Monitoring round 2** | | | | 08/04/2025 | | | 09/04/2025 | | | 09/04/2025 | | | 08/04/2025 | | | 09/04/2025 | | | 08/04/2025 | | |
| **Compound Name** | | | | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** |
| VOC TIC Match 1 | | | | Oxalic acid | 79 | 15 | Oxalic acid | 85 | 15 | Oxalic acid | 92 | 25 | Octane | 97 | 20 | Oxalic acid | 85 | 31 | Oxalic acid | 84 | 19 |
| VOC TIC Match 2 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | Oxalic acid | 87 | 39 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 3 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | Decane | 97 | 17 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 4 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 5 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 6 | N/A | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 7 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 8 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 9 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| VOC TIC Match 10 | | | | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 | 0 | 0 | < 10 |
| **Monitoring round 3** | 07/05/2025 | | | 07/05/2025 | | | 07/05/2025 | | | 07/05/2025 | | | 07/05/2025 | | | 07/05/2025 | | | 29/04/2025 | | |
| **Compound Name** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** | **Compound Name** | **% Match** | **Amount (ppbv)** |
| VOC TIC Match 1 | Decane | 96 | 18 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | **m Heptane, 2,2,4,6,6-pentamethyl- | 94 | 130 | ND | 0 | < 10 | (2) UNIDENTIFIED COMPOUND (no library match) | 0 | 210 |
| VOC TIC Match 2 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | Octane | 98 | 37 | ND | 0 | < 10 | Decane | 96 | 13 |
| VOC TIC Match 3 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | Cyclopentanone | 96 | 16 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 4 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | 2,2,4,4-Tetramethyloctane | 95 | 11 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 5 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 6 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 7 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 8 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 9 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |
| VOC TIC Match 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 | ND | 0 | < 10 |

| NUMBER OF SAMPLES: | 15 | | | | | | | | | | | Sample Location | MW25-02 | MW25-02 | MW25-02 | MW25-02-DUP | MW25-02-DUP | MW25-03 | MW25-03 | MW25-03 | MW25-03-DUP | MW25-03-DUP | MW25-06 | MW25-06 | MW25-06 | MW25-06-DUP | MW25-06-DUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | EXCEEDS BOTH | | | | | | Monitoring Round No. | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 3 | 1 | 3 | 1 | 2 | 3 | 2 | 3 |
| | | | CRITERIA 1 | CRITERIA 2 | | CRITERIA 1 | CRITERIA 2 | | | | | Date Sampled | 17/03/2025 | 07/04/2025 | 28/04/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 28/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 07/04/2025 | 28/04/2025 |
| | | | | | | | | | | | | Stratum | Wolston Clay Member | | | | | Wolston Clay Member | | | | | Wolston Clay Member | | | | |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Residential** | **Commercial** | **No. Analyses** | **Exceedances** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** | | | | | | | | | | | | | | | | |
| pH | pH Units | N/A | | | 15 | | | 7 | 7.3 | 7.50 | MW25-02 | | 7.50 | 7.40 | 7.30 | 7.40 | 7.30 | 7.30 | 7.30 | 7.00 | 7.30 | 7.10 | 7.30 | 7.30 | 7.00 | 7.20 | 7.20 |
| Conductivity | µS/cm | 10 | | | 15 | | | 810 | 1112 | 1500.00 | MW25-03 | | 840.00 | 810.00 | 870.00 | 810.00 | 850.00 | 1200.00 | 1400.00 | 1500.00 | 1200.00 | 1500.00 | 1100.00 | 1100.00 | 1200.00 | 1100.00 | 1200.00 |
| Cyanide (Total) (as CN) | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Complexed cyanide | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Easily liberatable cyanide | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | $mg.L^{-1}$ | 0.2 | | | 15 | | | <0.2 | <0.2 | <0.2 | n/a | | <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 |
| Sulphate | $mg.L^{-1}$ | 0.045 | | | 15 | | | 67.4 | 173.267 | 238.00 | MW25-03 | | 67.40 | 68.80 | 75.20 | 69.00 | 82.60 | 220.00 | 229.00 | 238.00 | 217.00 | 238.00 | 208.00 | 213.00 | 228.00 | 220.00 | 225.00 |
| Sulphur (Elemental) | $mg.L^{-1}$ | 0.02 | | | 10 | | | <0.02 | <0.02 | <0.02 | n/a | | <0.02 | | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | <0.02 | <0.02 | | <0.02 | | <0.02 |
| Sulphide | $mg.L^{-1}$ | 0.005 | | | 15 | | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | $mg.L^{-1}$ | 0.15 | | | 15 | | | 61 | 108.27 | 200.000 | W25-03-DU | | 93.00 | 90.00 | 92.00 | 89.00 | 92.00 | 140.00 | 180.00 | 190.00 | 140.00 | 200.00 | 61.00 | 63.00 | 66.00 | 65.00 | 63.00 |
| Ammonium as NH4 | $mg.L^{-1}$ | 0.015 | | | 15 | | | 0.041 | 0.16 | 0.28 | W25-02-DU | | 0.20 | 0.18 | 0.23 | 0.21 | 0.28 | 0.24 | 0.15 | 0.22 | 0.21 | 0.041 | 0.068 | 0.078 | 0.12 | 0.073 | 0.10 |
| Dissolved Organic Carbon (DOC) | $mg.L^{-1}$ | 0.1 | | | 15 | | | 1.7 | 2.1 | 2.71 | MW25-03 | | 2.08 | 2.05 | 1.89 | 2.36 | 1.80 | 2.71 | 2.27 | 1.96 | 2.33 | 1.87 | 2.23 | 1.96 | 1.70 | 2.03 | 1.70 |
| Total Suspended Solids | $mg.L^{-1}$ | 2 | | | 15 | | | 19 | 437.5 | 2500.00 | W25-03-DU | | 77.00 | 140.00 | 19.00 | 470.00 | 140.00 | 220.00 | 720.00 | 1100.00 | 730.00 | 2500.00 | 280.00 | 23.00 | 55.00 | 49.00 | 39.00 |
| Catechol | $mg.L^{-1}$ | 0.0005 | | | 15 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | $mg.L^{-1}$ | 0.0005 | | | 15 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | $mg.L^{-1}$ | 0.0005 | | | 15 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | $mg.L^{-1}$ | 0.0005 | | | 15 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | $mg.L^{-1}$ | 0.0005 | | | 15 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | $mg.L^{-1}$ | 0.0035 | | | 15 | | | <0.0035 | <0.0035 | <0.0035 | n/a | | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | $mg.L^{-1}$ | 0.00001 | 0.22 | 23 | 15 | 0 | 0 | <0.00001 | <0.00015 | 0.00 | MW25-06 | | <0.00001 | <0.00001 | 0.00022 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0019 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthylene | $mg.L^{-1}$ | 0.00001 | 220 | 20000 | 15 | 0 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | $mg.L^{-1}$ | 0.00001 | 170 | 15000 | 15 | 0 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | $mg.L^{-1}$ | 0.00001 | 210 | 18000 | 15 | 0 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00002 | 0.00 | W25-06-DU | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00010 |
| Chrysene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00002 | 0.00 | W25-06-DU | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00011 |
| Benzo[b]fluoranthene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | $mg.L^{-1}$ | 0.00001 | | | 15 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| PAH 16 Total | $mg.L^{-1}$ | 0.00016 | | | 15 | | | <0.00016 | <0.00028 | 0.00 | MW25-06 | | <0.00016 | <0.00016 | 0.00022 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | 0.0019 | <0.00016 | <0.00016 | 0.00020 |
| Arsenic | $mg.L^{-1}$ | 0.00015 | | | 15 | | | 0.0011 | 0.00212 | 0.00 | MW25-03 | | 0.0012 | 0.0023 | 0.0011 | 0.0017 | 0.0015 | 0.0032 | 0.0025 | 0.0025 | 0.0031 | 0.0030 | 0.0014 | 0.0025 | 0.0021 | 0.0023 | 0.0014 |
| Cadmium | $mg.L^{-1}$ | 0.00002 | | | 15 | | | <0.00002 | <0.00002 | 0.00 | MW25-03 | | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.000030 | <0.00002 | <0.00002 | 0.000030 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Chromium (VI) | $mg.L^{-1}$ | 0.005 | | | 15 | | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | $mg.L^{-1}$ | 0.0002 | | | 15 | | | <0.0002 | <0.0003 | 0.00 | MW25-03 | | <0.0002 | <0.0002 | 0.00030 | <0.0002 | <0.0002 | 0.00096 | <0.0002 | <0.0002 | 0.00032 | 0.00046 | 0.00022 | <0.0002 | <0.0002 | <0.0002 | 0.00055 |
| Copper | $mg.L^{-1}$ | 0.0005 | | | 15 | | | 0.0011 | 0.0019 | 0.00 | MW25-03 | | 0.0015 | 0.0015 | 0.0026 | 0.0012 | 0.0023 | 0.0031 | 0.0011 | 0.0013 | 0.0030 | 0.0013 | 0.0027 | 0.0015 | 0.0019 | 0.0012 | 0.0020 |
| Lead | $mg.L^{-1}$ | 0.0002 | | | 15 | | | <0.0002 | <0.0002 | 0.00 | MW25-03 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00030 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Magnesium | $mg.L^{-1}$ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury (inorganic) | $mg.L^{-1}$ | 0.00005 | 0.0011 | 0.095 | 15 | 0 | 0 | <0.00005 | <0.00005 | <0.00005 | n/a | | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | $mg.L^{-1}$ | 0.0005 | | | 15 | | | 0.0012 | 0.0025 | 0.00 | MW25-03 | | 0.0014 | 0.0014 | 0.0013 | 0.0013 | 0.0012 | 0.0041 | 0.0027 | 0.0039 | 0.0024 | 0.0031 | 0.0028 | 0.0029 | 0.0029 | 0.0031 | |
| Selenium | $mg.L^{-1}$ | 0.0006 | | | 15 | | | <0.0006 | <0.0006 | <0.0006 | n/a | | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | $mg.L^{-1}$ | 0.0005 | | | 15 | | | 0.001 | 0.0048 | 0.03 | MW25-02 | | 0.0016 | 0.0010 | 0.029 | 0.0014 | 0.0039 | 0.0064 | 0.0013 | 0.0020 | 0.0070 | 0.0038 | 0.0034 | 0.0013 | 0.0035 | 0.0015 | 0.0046 |
| Benzene | $mg.L^{-1}$ | 0.001 | 0.21 | 20 | 15 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | $mg.L^{-1}$ | 0.001 | 230 | 21000 | 15 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | $mg.L^{-1}$ | 0.001 | 10 | 960 | 15 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | $mg.L^{-1}$ | 0.001 | | | 15 | | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | $mg.L^{-1}$ | 0.001 | 12 | 1100 | 15 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Methyl tert-butyl ether | $mg.L^{-1}$ | 0.003 | 83 | 7800 | 4 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | <0.003 | | | | | <0.003 | | | <0.003 | | <0.003 | | | | |
| TPH (C10 - C40) | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | $mg.L^{-1}$ | 0.001 | 1.9 | 190 | 15 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | $mg.L^{-1}$ | 0.001 | 1.5 | 150 | 15 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | $mg.L^{-1}$ | 0.001 | 0.057 | 5.7 | 15 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | $mg.L^{-1}$ | 0.01 | 0.037 | 3.6 | 15 | 0 | 0 | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 – C21 | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 – C35 | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 – C35 | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | $mg.L^{-1}$ | 0.001 | 210 | 20000 | 15 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | $mg.L^{-1}$ | 0.001 | 220 | 21000 | 15 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | $mg.L^{-1}$ | 0.001 | 1.9 | 190 | 15 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | $mg.L^{-1}$ | 0.01 | 6.8 | 660 | 15 | 0 | 0 | <0.01 | <0.01 | 0.03 | MW25-06 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | $mg.L^{-1}$ | 0.01 | 39 | 3700 | 15 | 0 | 0 | <0.01 | <0.01 | 0.02 | MW25-06 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.020 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 – C35 | $mg.L^{-1}$ | 0.01 | | | 15 | | | <0.01 | <0.01 | 0.05 | MW25-06 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | <0.01 | <0.01 | <0.01 |

NUMBER OF SAMPLES: 124

CRITERIA 1 | CRITERIA 2 | EXCEEDS BOTH

| Analytical Parameter | Units | Limit of detection | Residential (CRITERIA 1) | Commercial (CRITERIA 2) | No. Analyses | Exceedances (CRITERIA 1) | Exceedances (CRITERIA 2) | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | pH Units | N/A | | | 124.00 | | | 5.9 | 7.6 | 11.50 | MW25-22 |
| Conductivity | μS/cm | 10 | | | 124.00 | | | <10 | <2453 | 7200 | MW25-17 |
| Cyanide (Total) (as CN) | $mg.L^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.76 | 8.60 | MW25-10 |
| Complexed cyanide | $mg.L^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.75 | 8.50 | MW25-10 |
| Easily liberatable cyanide | $mg.L^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.01 | 0.07 | MW25-14 |
| Thiocyanate | $mg.L^{-1}$ | 0.2 | | | 124.00 | | | <0.2 | <0.8 | 12 | MW25-14 |
| Sulphate | $mg.L^{-1}$ | 0.045 | | | 124.00 | | | <0.045 | <532.473 | 2220 | MW25-17 |
| Sulphur (Elemental) | $mg.L^{-1}$ | 0.02 | | | 82.00 | | | <0.02 | <0.02 | 0.04 | CBH102 |
| Sulphide | $mg.L^{-1}$ | 0.005 | | | 124.00 | | | <0.005 | <0.172 | 5.90 | MW25-17 |
| Chloride | $mg.L^{-1}$ | 0.15 | | | 124.00 | | | <0.15 | <435.92 | 1900 | MW25-17 |
| Ammonium as NH4 | $mg.L^{-1}$ | 0.015 | | | 124.00 | | | <0.015 | <52.785 | 680 | MW25-27 |
| Dissolved Organic Carbon (DOC) | $mg.L^{-1}$ | 0.1 | | | 124.00 | | | 0.2 | 20.8 | 235 | MW25-27 |
| Total Suspended Solids | $mg.L^{-1}$ | 2 | | | 124.00 | | | <2 | <1165.1 | 110000 | CBH129 |
| Total Organic Carbon (TOC) | $mg.L^{-1}$ | 0.1 | | | 124.00 | | | 0.69 | 23.2 | 264 | MW25-27 |
| Alkalinity as CaCO3 | mgCaCO.L | 3 | | | 124 | | | <3 | <370.3 | 1200 | MW25-27 |
| Hardness - Total | mgCaCO.L | 1 | | | 124 | | | <1 | <677.5 | 2520 | MW25-08 |
| Catechol | $mg.L^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.2716 | 14 | MW25-27 |
| Resorcinol | $mg.L^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0174 | 0.48 | MW25-23B |
| Cresols (Total) | $mg.L^{-1}$ | 0.0005 | | | 124 | | | <0.0005 | <1.3606 | 50 | MW25-27 |
| Naphthols | $mg.L^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0545 | 2.20 | MW25-23B |
| Isopropylphenol | $mg.L^{-1}$ | 0.0005 | | | 124 | | | <0.0005 | <0.1441 | 10 | MW25-27 |
| Total Xylenols & Ethylphenols | $mg.L^{-1}$ | 0.0005 | | | 124 | | | <0.0005 | <2.4394 | 66 | MW25-27 |
| Phenol | $mg.L^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.9234 | 56 | MW25-27 |
| Trimethylphenol | $mg.L^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.5356 | 16 | MW25-23B |
| Phenols (Total) | $mg.L^{-1}$ | 0.0035 | | | 124.00 | | | <0.0035 | <5.7797 | 190 | MW25-27 |
| Naphthalene | $mg.L^{-1}$ | 0.00001 | 0.22 | 23 | 124.00 | 23 | 0 | <0.00001 | <0.45201 | 6.80 | MW25-23B |
| Acenaphthylene | $mg.L^{-1}$ | 0.00001 | 220 | 20000 | 124.00 | 0 | 0 | <0.00001 | <0.02513 | 0.57 | MW25-23B |
| Acenaphthene | $mg.L^{-1}$ | 0.00001 | 170 | 15000 | 124.00 | 0 | 0 | <0.00001 | <0.00564 | 0.12 | MW25-16A- |
| Fluorene | $mg.L^{-1}$ | 0.00001 | 210 | 18000 | 124.00 | 0 | 0 | <0.00001 | <0.01189 | 0.39 | MW25-16A- |
| Phenanthrene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.023 | 1.10 | MW25-16A- |
| Anthracene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00725 | 0.36 | MW25-16A- |
| Fluoranthene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.01305 | 0.81 | MW25-16A- |
| Pyrene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.0102 | 0.62 | MW25-16A- |
| Benzo[a]anthracene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00462 | 0.29 | MW25-16A- |
| Chrysene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.0032 | 0.25 | MW25-16A- |
| Benzo[b]fluoranthene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00335 | 0.28 | MW25-16A- |
| Benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00159 | 0.13 | MW25-16A- |
| Benzo[a]pyrene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00333 | 0.27 | MW25-16A- |
| Indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00145 | 0.12 | MW25-16A- |
| Dibenz(a,h)anthracene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00005 | 0.0032 | MW25-23B |
| Benzo[ghi]perylene | $mg.L^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00156 | 0.13 | MW25-16A- |
| PAH 16 Total | $mg.L^{-1}$ | 0.00016 | | | 124.00 | | | <0.00016 | <0.56847 | 9.80 | MW25-23B |
| Arsenic | $mg.L^{-1}$ | 0.00015 | | | 124.00 | | | <0.00015 | <0.00863 | 0.088 | MW25-10 |
| Cadmium | $mg.L^{-1}$ | 0.00002 | | | 124.00 | | | <0.00002 | <0.00008 | 0.0007 | CBH124 |
| Chromium (VI) | $mg.L^{-1}$ | 0.005 | | | 124.00 | | | <0.005 | <0.005 | <0.005 | n/a |
| Chromium (Total) | $mg.L^{-1}$ | 0.0002 | | | 124.00 | | | <0.0002 | <0.0007 | 0.0064 | MW25-27 |
| Copper | $mg.L^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0032 | 0.017 | CBH108-DU |
| Calcium | $mg.L^{-1}$ | 0.012 | | | 122 | | | <0.012 | <217.347 | 830 | MW25-08 |
| Iron | $mg.L^{-1}$ | 0.004 | | | 124 | | | <0.004 | <0.516 | 4.4 | MW25-10 |
| Lead | $mg.L^{-1}$ | 0.0002 | | | 124.00 | | | <0.0002 | <0.0003 | 0.005 | CBH104 |
| Mercury (inorganic) | $mg.L^{-1}$ | 0.00005 | 0.0011 | 0.095 | 124.00 | 2 | 0 | <0.00005 | <0.0001 | 0.002 | MW25-17 |
| Nickel | $mg.L^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0055 | 0.023 | MW25-17 |
| Selenium | $mg.L^{-1}$ | 0.0006 | | | 124.00 | | | <0.0006 | <0.0026 | 0.015 | MW25-14 |
| Zinc | $mg.L^{-1}$ | 0.0005 | | | 124.00 | | | 0.0006 | 0.0059 | 0.05 | CBH104 |
| Benzene | $mg.L^{-1}$ | 0.001 | 0.21 | 20 | 123.00 | 29 | 1 | <0.001 | <0.841 | 22 | MW25-23B |
| Toluene | $mg.L^{-1}$ | 0.001 | 230 | 21000 | 123.00 | 0 | 0 | <0.001 | <0.405 | 14 | MW25-23B |
| Ethylbenzene | $mg.L^{-1}$ | 0.001 | 10 | 960 | 123.00 | 0 | 0 | <0.001 | <0.022 | 0.39 | MW25-10 |
| Xylene (p & m-Xylene) | $mg.L^{-1}$ | 0.001 | | | 123.00 | | | <0.001 | <0.147 | 4.10 | MW25-23B |
| Xylene (o-Xylene) | $mg.L^{-1}$ | 0.001 | 12 | 1100 | 123.00 | 0 | 0 | <0.001 | <0.087 | 2 | MW25-23B |
| Methyl tert-butyl ether | $mg.L^{-1}$ | 0.003 | 83 | 7800 | 56.00 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| TPH (C10 - C40) | $mg.L^{-1}$ | 0.01 | | | 111.00 | | | <0.01 | <6.45 | 166 | MW25-27 |
| TPH Total C5 - C35 | $mg.L^{-1}$ | 0.01 | | | 124 | | | <0.01 | <10.06 | 203 | MW25-27 |
| Aliphatic C5 - C6 | $mg.L^{-1}$ | 0.001 | 1.9 | 190 | 124.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a |
| Aliphatic C6 - C8 | $mg.L^{-1}$ | 0.001 | 1.5 | 150 | 124.00 | 0 | 0 | <0.001 | <0.001 | 0.061 | MW25-33 |
| Aliphatic C8 – C10 | $mg.L^{-1}$ | 0.001 | 0.057 | 5.7 | 124.00 | 0 | 0 | <0.001 | <0.001 | 0.030 | MW25-33 |
| Aliphatic C10 – C12 | $mg.L^{-1}$ | 0.01 | 0.037 | 3.6 | 124.00 | 6 | 0 | <0.01 | <0.07 | 3.11 | MW25-27 |
| Aliphatic C12 – C16 | $mg.L^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.03 | 0.62 | MW25-27 |
| Aliphatic C16 - C21 | $mg.L^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.02 | 0.32 | CBH129 |
| Aliphatic C21 - C35 | $mg.L^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.02 | 0.7 | CBH129 |
| Total Aliphatic C10 - C35 | $mg.L^{-1}$ | 0.01 | | | 110 | | | <0.01 | <0.12 | 3.92 | MW25-27 |
| Total Aliphatic C5 - C35 | $mg.L^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.11 | 3.92 | MW25-27 |
| Aromatic C5 - C7 | $mg.L^{-1}$ | 0.001 | 210 | 20000 | 124.00 | 0 | 0 | <0.001 | <0.826 | 22 | MW25-23B |
| Aromatic C7 - C8 | $mg.L^{-1}$ | 0.001 | 220 | 21000 | 124.00 | 0 | 0 | <0.001 | <0.402 | 14 | MW25-23B |
| Aromatic C8 – C10 | $mg.L^{-1}$ | 0.001 | 1.9 | 190 | 124.00 | 4 | 0 | <0.001 | <0.26 | 6.60 | MW25-23B |
| Aromatic C10 – C12 | $mg.L^{-1}$ | 0.01 | 6.8 | 660 | 124.00 | 16 | 0 | <0.01 | <5.87 | 156 | MW25-27 |
| Aromatic C12 – C16 | $mg.L^{-1}$ | 0.01 | 39 | 3700 | 124.00 | 0 | 0 | <0.01 | <1.84 | 33.70 | MW25-27 |
| Aromatic C16 – C21 | $mg.L^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.41 | 9.17 | MW25-23B |
| Aromatic C21 – C35 | $mg.L^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.38 | 8 | MW25-16A- |
| Total Aromatic C10 - C35 | $mg.L^{-1}$ | 0.01 | | | 110 | | | <0.01 | <6.75 | 192 | MW25-27 |
| Total Aromatic C5 - C35 | $mg.L^{-1}$ | 0.01 | | | 124 | | | <0.01 | <9.95 | 199 | MW25-27 |
| 4-Chlorophenol | $mg.L^{-1}$ | 0.0001 | | | 1 | | | 0 | 0 | 0 | MW25-23B |
| 3,5-Dimethylphenol | $mg.L^{-1}$ | 0.0001 | | | 1 | | | 0 | 0 | 0 | MW25-23B |
| Chloromethane | $mg.L^{-1}$ | 0.003 | 0.014 | 1.4 | 22 | 0 | 0 | <0.001 | <0.003 | <0.003 | MW25-33 |
| Chloroethane | $mg.L^{-1}$ | 0.003 | 10 | 1000 | 22 | 0 | 0 | <0.001 | <0.003 | <0.003 | MW25-33 |
| Bromomethane | $mg.L^{-1}$ | 0.003 | | | 22 | | | <0.001 | <0.003 | <0.003 | MW25-33 |
| Vinyl chloride (Chloroethene) | $mg.L^{-1}$ | 0.003 | 0.00062 | 0.063 | 22 | 0 | 0 | <0.001 | <0.003 | <0.003 | MW25-33 |
| Trichlorofluoromethane | $mg.L^{-1}$ | 0.003 | | | 22 | | | <0.001 | <0.003 | <0.003 | MW25-33 |
| 1,1-Dichloroethene | $mg.L^{-1}$ | 0.003 | 0.16 | 16 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Trans 1,2-dichloroethylene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,1-Dichloroethane | $mg.L^{-1}$ | 0.003 | 2.7 | 260 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 2,2-Dichloropropane | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Trichloromethane (Chloroform) | $mg.L^{-1}$ | 0.003 | 0.79 | 85 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,1,1-Trichloroethane (TCA) | $mg.L^{-1}$ | 0.003 | 3 | 290 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,2-Dichloroethane | $mg.L^{-1}$ | 0.003 | 0.0089 | 0.85 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,1-Dichloropropene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Cis-1,2-dichloroethene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Carbontetrachloride | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,2-Dichloropropane | $mg.L^{-1}$ | 0.003 | 0.022 | 2.6 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| Trichloroethene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Dibromomethane | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Bromodichloromethane | $mg.L^{-1}$ | 0.003 | 0.017 | 1.6 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| Cis-1,3-dichloropropene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Trans-1,3-dichloropropene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,1,2 Trichloroethane | $mg.L^{-1}$ | 0.003 | 0.52 | 49 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,3-Dichloropropane | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Dibromochloromethane | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Tetrachloroethene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,2-Dibromoethane | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| ChloroBenzene | $mg.L^{-1}$ | 0.003 | 0.098 | 15 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | $mg.L^{-1}$ | 0.003 | 0.24 | 22 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| Styrene | $mg.L^{-1}$ | 0.003 | 8.8 | 810 | 21 | 0 | 0 | <0.003 | <0.253 | 2.27 | MW25-23B |
| Bromoform | $mg.L^{-1}$ | 0.003 | 3.1 | 400 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,1,2,2-Tetrachloroethane | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Bromobenzene | $mg.L^{-1}$ | 0.003 | 0.22 | 20 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| n-Propylbenzene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | 0.0123 | MW25-27 |
| 2-Chlorotoluene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 4-Chlorotoluene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,3,5-Trimethylbenzene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.034 | 0.152 | MW25-23B |
| tert-Butylbenzene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | 0.0091 | MW25-33 |
| 1,2,4-Trimethylbenzene | $mg.L^{-1}$ | 0.003 | 0.024 | 2.2 | 21 | 16 | 0 | <0.003 | <0.128 | 0.369 | MW25-23B |
| sec-Butylbenzene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,3-dichlorobenzene | $mg.L^{-1}$ | 0.003 | 0.031 | 2.8 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 |
| p-Isopropyltoluene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | 0.0053 | MW25-17 |
| 1,4-dichlorobenzene | $mg.L^{-1}$ | 0.003 | 5 | 460 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 |
| 1,2-dichlorobenzene | $mg.L^{-1}$ | 0.003 | 2 | 220 | 21 | 0 | 0 | <0.00005 | <0.002 | 0.011 | MW25-17 |
| Butylbenzene | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,2-Dibromo-3-chloropropane | $mg.L^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,2,4-trichlorobenzene | $mg.L^{-1}$ | 0.003 | 0.068 | 7.2 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 |
| Hexachlorobutadiene | $mg.L^{-1}$ | 0.003 | 0.0017 | 0.23 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 |
| 1,2,3-trichlorobenzene | $mg.L^{-1}$ | 0.003 | 0.035 | 3.1 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 3+4-Methylphenol | $mg.L^{-1}$ | 0.0001 | | | 8 | | | <0.0001 | <4.4151 | 13 | MW25-27 |
| Aniline | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.04378 | 0.19 | MW25-16A-S |
| 2-chlorophenol | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Bis(2-chloroethyl)ether | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Bis(2-chloroisopropyl)ether | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2-Methylphenol | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <7.42503 | 23 | MW25-27 |
| Hexachloroethane | $mg.L^{-1}$ | 0.00005 | 0.0085 | 0.74 | 8 | 0 | 0 | <0.00005 | <0.00004 | <0.00005 | n/a |
| Nitrobenzene | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 4-Methylphenol | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <4.41503 | 13 | MW25-27 |
| Isophorone | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2-Nitrophenol | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2,4-Dimethylphenol | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <9.51001 | 22 | MW25-27 |
| Bis(2-chloroethoxy)methane | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2,4-Dichlorophenol | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 4-Chloroaniline | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 4-Chloro-3-methylphenol | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2,4,6-Trichlorophenol | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2,4,5-Trichlorophenol | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2-Methylnaphthalene | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.28251 | 1.2 | MW25-16A-S |
| 2-Chloronaphthalene | $mg.L^{-1}$ | 0.00005 | 0.16 | 14 | 8 | 0 | 0 | <0.00005 | <0.00026 | 0.0018 | MW25-16A-S |
| Dimethylphthalate | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00016 | 0.001 | MW25-16A-S |
| 2,6-Dinitrotoluene | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00005 | <0.00005 | n/a |
| 2,4-Dinitrotoluene | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Dibenzofuran | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.08076 | 0.43 | MW25-16A-S |
| 4-Chlorophenyl phenyl ether | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Diethyl phthalate | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 4-Nitroaniline | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Azobenzene | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Bromophenyl phenyl ether | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Hexachlorobenzene | $mg.L^{-1}$ | 0.00005 | 0.016 | 1.4 | 8 | 0 | 0 | <0.00005 | <0.00004 | <0.00005 | n/a |
| Carbazole | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.10319 | 0.25 | MW25-16A-S |
| Dibutyl phthalate | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Anthraquinone | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Butyl benzyl phthalate | $mg.L^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| PCB Congener 28 | $mg.L^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 52 | $mg.L^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 101 | $mg.L^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 118 | $mg.L^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 138 | $mg.L^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 153 | $mg.L^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 180 | $mg.L^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| Total ICES-7 PCBs | $mg.L^{-1}$ | 0.00014 | | | 5 | | | <0.00014 | <0.00011 | <0.00014 | n/a |

| Analytical Parameter | Settling tanks | Settling tanks | Settling tanks | Settling tanks | Settling tanks | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Reservoir | Reservoir | Reservoir | Reservoir |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | MW25-01 | MW25-01 | MW25-01 | MW25-01-DUP | MW25-01-DUP | MW25-04A | MW25-04A | MW25-04A | MW25-07 | MW25-07 | MW25-07 | MW25-35 | MW25-35 | MW25-35 | MW25-36 | MW25-36 | MW25-36 | MW25-36-DUP |
| Monitoring Round No. | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 |
| Date Sampled | 17/03/2025 | 07/04/2025 | 28/04/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 |
| Stratum | | | Wolston Sand & Gravel | | | | Wolston Sand & Gravel | | | Boulder Clay/Wolston Sand & Gravel | | | Boulder Clay/Wolston Sand & Gravel | | | Wolston Sand & Gravel/Wolston Clay | | |
| pH | 7.50 | 7.50 | 7.30 | 7.50 | 7.40 | 7.30 | 7.20 | 7.10 | 7.20 | 7.20 | 6.90 | 7.30 | 7.30 | 7.10 | 7.10 | 7.20 | 7.10 | 7.10 |
| Conductivity | 1600.00 | 1600.00 | 1600.00 | 1500.00 | 1600.00 | 2000.00 | 1900.00 | 2100.00 | 2100.00 | 2100.00 | 2100.00 | 2400.00 | 2300.00 | 2500.00 | 1800.00 | 1700.00 | 1700.00 | 1700.00 |
| Cyanide (Total) (as CN) | 0.030 | 0.020 | 0.030 | 0.020 | 0.030 | 0.040 | 0.040 | 0.050 | 0.57 | 0.53 | 0.51 | 0.17 | 0.29 | 0.34 | 0.34 | 0.29 | 0.17 | 0.41 |
| Complexed cyanide | 0.030 | 0.020 | 0.030 | 0.020 | 0.030 | 0.040 | 0.040 | 0.050 | 0.57 | 0.53 | 0.51 | 0.17 | 0.29 | 0.34 | 0.34 | 0.29 | 0.17 | 0.41 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | <0.2 | 0.30 | <0.2 | <0.2 | 0.20 | <0.2 | 0.20 | 0.20 | 0.30 | 0.30 | 0.30 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.20 |
| Sulphate | 262.00 | 252.00 | 216.00 | 246.00 | 229.00 | 338.00 | 326.00 | 310.00 | 913.00 | 637.00 | 833.00 | 383.00 | 367.00 | 377.00 | 364.00 | 343.00 | 301.00 | 282.00 |
| Sulphur (Elemental) | <0.02 | | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 210.00 | 210.00 | 210.00 | 210.00 | 210.00 | 360.00 | 350.00 | 380.00 | 180.00 | 210.00 | 130.00 | 610.00 | 490.00 | 490.00 | 240.00 | 240.00 | 240.00 | 240.00 |
| Ammonium as NH4 | 2.40 | 4.00 | 3.80 | 3.80 | 3.90 | 7.10 | 5.70 | 4.60 | 2.70 | 2.90 | 2.50 | 2.70 | 2.40 | 2.40 | 3.40 | 3.40 | 3.00 | 3.40 |
| Dissolved Organic Carbon (DOC) | 6.30 | 8.31 | 8.15 | 9.29 | 8.20 | 5.59 | 4.31 | 3.09 | 4.74 | 3.82 | 4.88 | 2.85 | 2.55 | 2.53 | 3.37 | 2.74 | 2.69 | 3.35 |
| Total Suspended Solids | 180.00 | 110.00 | 120.00 | 91.00 | 180.00 | 56.00 | 110.00 | 240.00 | 110.00 | 75.00 | 700.00 | 120.00 | 95.00 | 22.00 | 56.00 | 38.00 | 32.00 | 71.00 |
| Total Organic Carbon (TOC) | 6.40 | 9.19 | 8.57 | 9.40 | 8.38 | 5.86 | 4.47 | 3.33 | 5.25 | 3.98 | 5.01 | 2.88 | 2.73 | 2.73 | 3.60 | 2.83 | 3.01 | 3.45 |
| Alkalinity as CaCO3 | 370.00 | 370.00 | 390.00 | 330.00 | 380.00 | 340.00 | 300.00 | 300.00 | 370.00 | 340.00 | 340.00 | 320.00 | 250.00 | 270.00 | 360.00 | 360.00 | 380.00 | 400.00 |
| Hardness - Total | 428.00 | 444.00 | 490.00 | 397.00 | 509.00 | 550.00 | 567.00 | 564.00 | 1110.00 | 818.00 | 1200.00 | 619.00 | 550.00 | 631.00 | 653.00 | 603.00 | 654.00 | 486.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.058 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | 0.058 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0022 | 0.0016 | 0.00049 | <0.00001 | <0.00001 | 0.00022 | <0.00001 |
| Acenaphthylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000040 | <0.00001 | <0.00001 | 0.00028 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000060 | <0.00001 | <0.00001 | 0.000060 | <0.00001 | <0.00001 | <0.00001 | 0.00013 | <0.00001 | 0.000070 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00024 | 0.00016 | 0.000080 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00019 | 0.000040 | <0.00001 | <0.00001 | 0.00032 | 0.00026 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00021 | <0.00001 | <0.00001 | <0.00001 | 0.00016 | <0.00001 | 0.000090 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00019 | 0.000080 | <0.00001 | <0.00001 | 0.00013 | <0.00001 | 0.000070 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000090 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000090 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| PAH 16 Total | <0.00016 | <0.00016 | <0.00016 | <0.00016 | 0.00023 | <0.00016 | <0.00016 | 0.00064 | 0.00016 | <0.00016 | <0.00016 | 0.0035 | 0.0020 | 0.00080 | <0.00016 | <0.00016 | 0.00022 | <0.00016 |
| Arsenic | 0.0012 | 0.0031 | 0.0029 | 0.0028 | 0.0041 | 0.00057 | 0.00083 | 0.0011 | 0.00061 | 0.00054 | 0.00083 | 0.00039 | 0.00098 | 0.0013 | 0.00054 | 0.0010 | 0.0010 | 0.00059 |
| Cadmium | 0.000050 | <0.00002 | <0.00002 | <0.00002 | 0.000030 | 0.000040 | 0.000030 | 0.000050 | 0.00017 | 0.00035 | 0.00050 | 0.000040 | 0.000030 | 0.000040 | 0.000020 | 0.000020 | <0.00002 | 0.000020 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.00025 | 0.00020 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00032 | <0.0002 | 0.00037 | <0.0002 | 0.0011 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Copper | 0.0051 | 0.0020 | 0.0012 | 0.0023 | 0.0020 | 0.0033 | 0.0024 | 0.0029 | 0.0044 | 0.0048 | 0.0094 | 0.0033 | 0.0042 | 0.0020 | 0.0023 | 0.0029 | 0.0040 | 0.0028 |
| Calcium | 130.00 | 130.00 | 160.00 | 120.00 | 160.00 | 170.00 | 170.00 | 170.00 | 390.00 | 280.00 | 420.00 | 190.00 | 180.00 | 210.00 | 200.00 | 180.00 | 210.00 | 150.00 |
| Iron | 0.042 | 0.017 | 0.018 | 0.021 | 0.47 | 0.028 | 0.025 | 0.023 | 0.33 | 0.25 | 0.27 | 0.11 | 0.16 | 0.18 | 0.18 | 0.14 | 0.11 | 0.19 |
| Lead | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0054 | 0.0050 | 0.0052 | 0.0049 | 0.0061 | 0.0055 | 0.0053 | 0.0052 | 0.013 | 0.014 | 0.017 | 0.0031 | 0.0030 | 0.0042 | 0.0058 | 0.0051 | 0.0051 | 0.0055 |
| Selenium | 0.00090 | 0.00080 | 0.00070 | 0.00080 | 0.00080 | 0.00080 | <0.0006 | <0.0006 | 0.0022 | 0.0015 | 0.0041 | 0.0011 | 0.0011 | 0.00080 | 0.0010 | <0.0006 | <0.0006 | 0.00080 |
| Zinc | 0.0027 | 0.00090 | 0.0095 | 0.0010 | 0.020 | 0.0048 | 0.0034 | 0.0048 | 0.0071 | 0.0055 | 0.032 | 0.0080 | 0.0070 | 0.0073 | 0.0049 | 0.0038 | 0.0046 | 0.0031 |
| Benzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Methyl tert-butyl ether | <0.003 | | | | | <0.003 | | | <0.003 | | | <0.003 | | | <0.003 | | | <0.003 |
| TPH (C10 - C40) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.070 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.070 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.010 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.070 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.070 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| PCB Congener 28 | | | | | | | | | | | | <0.00002 | <0.00002 | <0.00002 | | | | |
| PCB Congener 52 | | | | | | | | | | | | <0.00002 | <0.00002 | <0.00002 | | | | |
| PCB Congener 101 | | | | | | | | | | | | <0.00002 | <0.00002 | <0.00002 | | | | |
| PCB Congener 118 | | | | | | | | | | | | <0.00002 | <0.00002 | <0.00002 | | | | |
| PCB Congener 138 | | | | | | | | | | | | <0.00002 | <0.00002 | <0.00002 | | | | |
| PCB Congener 153 | | | | | | | | | | | | <0.00002 | <0.00002 | <0.00002 | | | | |
| PCB Congener 180 | | | | | | | | | | | | <0.00002 | <0.00002 | <0.00002 | | | | |
| Total ICES-7 PCBs | | | | | | | | | | | | <0.00014 | <0.00014 | <0.00014 | | | | |

| Analytical Parameter | GH1 | GH1 | GH1 | GH1 | GH1 | GH1 | GH2 | GH2 | GH2 | GH2 | GH2 | GH2 | GH3 | GH3 | GH3 | GH3 | GH3 | GH3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | MW25-13A | MW25-13A | MW25-13A | MW25-33 | MW25-33 | MW25-33 | MW25-10 | MW25-10 | MW25-10 | MW25-30B | MW25-30B | MW25-30B | MW25-17 | MW25-17 | MW25-17 | MW25-22 | MW25-22 | MW25-22 |
| Monitoring Round No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Date Sampled | 19/03/2025 | 09/04/2025 | 30/04/2025 | 18/03/2025 | 09/04/2025 | 30/04/2025 | 19/03/2025 | 09/04/2025 | 30/04/2025 | 19/03/2025 | 10/04/2025 | 30/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 |
| Stratum | | Made Ground | | | Made Ground | | | Made Ground | | | Made Ground | | | Made Ground | | | Made Ground | |
| pH | 7.90 | 7.90 | 7.90 | 7.60 | 7.30 | 7.50 | 9.90 | 10.10 | 10.20 | 9.60 | 10.10 | 10.20 | 10.40 | 10.60 | 10.70 | 11.20 | 11.50 | 11.40 |
| Conductivity | 1400.00 | 1400.00 | 1400.00 | 1000.00 | 1100.00 | 1200.00 | 2000.00 | 1800.00 | 1800.00 | 1200.00 | 1300.00 | 1400.00 | 7100.00 | 6100.00 | 7200.00 | 1900.00 | 2000.00 | 2200.00 |
| Cyanide (Total) (as CN) | 0.36 | 0.44 | 0.37 | 0.66 | 0.79 | 0.48 | 7.90 | 8.60 | 3.90 | 4.30 | 3.20 | 2.60 | 3.30 | 2.60 | 0.73 | 1.40 | 2.10 | 1.30 |
| Complexed cyanide | 0.36 | 0.44 | 0.37 | 0.66 | 0.79 | 0.48 | 7.90 | 8.50 | 3.90 | 4.30 | 3.20 | 2.60 | 3.30 | 2.60 | 0.73 | 1.40 | 2.10 | 1.30 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | 0.020 | 0.020 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | 0.20 | 0.30 | 0.30 | 0.30 | 0.20 | 0.40 | 6.20 | 5.10 | 4.70 | 0.90 | 1.20 | 1.80 | 1.30 | 2.20 | 0.70 | 1.80 | 0.70 | 0.50 |
| Sulphate | 446.00 | 474.00 | 478.00 | 378.00 | 480.00 | 433.00 | 568.00 | 439.00 | 423.00 | 583.00 | 494.00 | 450.00 | 1630.00 | 1520.00 | 2220.00 | 435.00 | 468.00 | 588.00 |
| Sulphur (Elemental) | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | 0.012 | <0.005 | 0.0060 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0080 | 2.30 | 0.21 | 5.90 | 3.60 | 3.70 | 4.90 |
| Chloride | 82.00 | 81.00 | 84.00 | 27.00 | 35.00 | 40.00 | 350.00 | 350.00 | 330.00 | 73.00 | 130.00 | 180.00 | 1900.00 | 1800.00 | 1800.00 | 330.00 | 310.00 | 300.00 |
| Ammonium as NH4 | 4.70 | 4.40 | 4.70 | 0.33 | 0.30 | 0.058 | 26.00 | 24.00 | 22.00 | 5.10 | 9.60 | 12.00 | 14.00 | 12.00 | 10.00 | 6.90 | 9.60 | 7.10 |
| Dissolved Organic Carbon (DOC) | 11.50 | 9.75 | 10.80 | 9.61 | 10.50 | 7.12 | 98.60 | 66.40 | 55.00 | 14.30 | 19.10 | 22.70 | 43.90 | 42.10 | 31.80 | 33.50 | 37.60 | 24.10 |
| Total Suspended Solids | 250.00 | 450.00 | 110.00 | 220.00 | 720.00 | 73.00 | 250.00 | 39.00 | 280.00 | 16.00 | 7.50 | 12.00 | 38.00 | 23.00 | 25.00 | 2.60 | 6.90 | 5.00 |
| Total Organic Carbon (TOC) | 12.10 | 9.87 | 11.00 | 9.65 | 11.20 | 7.23 | 100.00 | 66.90 | 55.10 | 14.40 | 19.70 | 23.40 | 44.10 | 47.10 | 34.40 | 34.20 | 40.30 | 25.30 |
| Alkalinity as CaCO3 | 280.00 | 300.00 | 320.00 | 180.00 | 200.00 | 210.00 | 120.00 | 110.00 | 110.00 | 50.00 | 53.00 | 74.00 | 120.00 | 90.00 | 120.00 | 180.00 | 210.00 | 180.00 |
| Hardness - Total | 573.00 | 602.00 | 563.00 | 408.00 | 520.00 | 486.00 | 615.00 | 560.00 | 410.00 | 391.00 | 366.00 | 364.00 | 1520.00 | 1180.00 | 1580.00 | 259.00 | 233.00 | 328.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.30 | 0.27 | <0.0005 | 0.14 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.084 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.23 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 1.0 | <0.0005 |
| Phenol | 0.27 | <0.0005 | <0.0005 | 0.22 | <0.0005 | <0.0005 | 0.49 | <0.0005 | <0.0005 | 0.62 | <0.0005 | <0.0005 | 0.16 | 0.28 | <0.0005 | <0.0005 | 0.37 | 0.24 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | 0.27 | <0.0035 | <0.0035 | 0.22 | <0.0035 | <0.0035 | 0.49 | <0.0035 | <0.0035 | 0.62 | <0.0035 | <0.0035 | 0.16 | 0.66 | 0.27 | <0.0035 | 1.80 | 0.24 |
| Naphthalene | <0.00001 | 0.011 | 0.0028 | 0.011 | 0.042 | 0.014 | **1.70** | **1.40** | **1.30** | **0.27** | **0.80** | **1.30** | 0.19 | 0.11 | 0.21 | 0.075 | 0.099 | 0.084 |
| Acenaphthylene | 0.0011 | 0.019 | 0.00041 | 0.053 | 0.055 | 0.0042 | 0.11 | 0.084 | 0.061 | 0.030 | 0.046 | 0.047 | 0.0013 | 0.0014 | 0.0014 | 0.00043 | 0.00049 | 0.00047 |
| Acenaphthene | 0.0048 | 0.018 | 0.0013 | 0.035 | 0.034 | 0.0027 | 0.013 | 0.011 | 0.0063 | 0.0077 | 0.0086 | 0.012 | 0.0090 | 0.012 | 0.013 | 0.014 | 0.018 | 0.024 |
| Fluorene | 0.00073 | 0.014 | <0.00001 | 0.029 | 0.039 | 0.0019 | 0.025 | 0.021 | 0.011 | 0.013 | 0.014 | 0.018 | 0.0056 | 0.0071 | 0.0078 | 0.0069 | 0.0085 | 0.012 |
| Phenanthrene | <0.00001 | 0.0061 | 0.00020 | 0.026 | 0.053 | 0.0057 | 0.022 | 0.018 | 0.011 | 0.0088 | 0.011 | 0.015 | 0.0059 | 0.0077 | 0.0073 | 0.011 | 0.014 | 0.016 |
| Anthracene | <0.00001 | 0.0038 | <0.00001 | 0.0068 | 0.024 | 0.0037 | 0.0063 | <0.000010 | 0.0030 | 0.0031 | <0.000010 | 0.0037 | <0.00001 | 0.0021 | <0.00001 | 0.0025 | <0.00001 | <0.00001 |
| Fluoranthene | 0.00072 | 0.0039 | 0.00052 | 0.0033 | 0.031 | 0.016 | 0.0033 | 0.0023 | 0.0015 | 0.0014 | 0.0014 | 0.0020 | 0.0012 | 0.0014 | 0.0015 | 0.0024 | 0.0028 | 0.0042 |
| Pyrene | 0.00093 | 0.0040 | 0.00087 | 0.0026 | 0.027 | 0.0097 | 0.0036 | 0.0024 | 0.0017 | 0.0013 | 0.0012 | 0.0018 | 0.00067 | 0.00087 | 0.00091 | 0.0015 | 0.0017 | 0.0025 |
| Benzo[a]anthracene | <0.00001 | 0.00098 | <0.00001 | 0.00034 | 0.010 | 0.0051 | 0.00081 | 0.00065 | 0.00033 | <0.00001 | 0.00024 | 0.00018 | <0.00001 | <0.00001 | <0.00001 | 0.00018 | <0.00001 | 0.00044 |
| Chrysene | <0.00001 | 0.00074 | <0.00001 | 0.00022 | 0.0093 | 0.0048 | 0.00064 | 0.00064 | 0.00026 | <0.00001 | 0.00013 | 0.00012 | <0.00001 | <0.00001 | <0.00001 | 0.00010 | <0.00001 | 0.00048 |
| Benzo[b]fluoranthene | <0.00001 | 0.00061 | <0.00001 | <0.00010 | 0.0086 | 0.0044 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00036 |
| Benzo[k]fluoranthene | <0.00001 | 0.00021 | <0.00001 | <0.00010 | 0.0029 | 0.0026 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00038 |
| Benzo[a]pyrene | <0.00001 | 0.00067 | <0.00001 | <0.00010 | 0.0079 | 0.0048 | 0.00043 | <0.00010 | <0.00001 | <0.00001 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00027 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | 0.00021 | <0.00001 | <0.00010 | 0.0033 | 0.0024 | 0.00012 & | 0.00050 | <0.00001 | <0.00001 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00030 |
| Dibenz(a,h)anthracene | <0.00001 | <0.000010 | <0.00001 | <0.00010 | <0.00001 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00001 | 0.00023 | <0.00001 | <0.00010 | 0.0039 | 0.0026 | 0.00018 | 0.00053 | <0.00001 | <0.00001 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00028 |
| PAH 16 Total | 0.0082 | 0.083 | 0.0061 | 0.17 | 0.35 | 0.084 | 1.90 | 1.60 | 1.40 | 0.33 | 0.88 | 1.40 | 0.21 | 0.14 | 0.24 | 0.11 | 0.14 | 0.15 |
| Arsenic | 0.011 | 0.0091 | 0.012 | 0.0024 | 0.0021 | 0.0022 | 0.070 | 0.079 | 0.088 | 0.029 | 0.048 | 0.052 | 0.059 | 0.046 | 0.022 | 0.027 | 0.025 | 0.021 |
| Cadmium | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00010 | 0.000080 | 0.00013 | 0.000030 | 0.000020 | 0.000030 | 0.000030 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.00025 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.0011 | 0.00032 | 0.00031 | 0.00036 | <0.0002 | <0.0002 | 0.00093 | 0.00097 | 0.00069 | 0.00071 | 0.00045 | 0.00029 |
| Copper | 0.0016 | 0.0016 | 0.0021 | 0.0015 | 0.0017 | 0.0022 | 0.0061 | 0.0045 | 0.0029 | 0.0016 | 0.0017 | 0.0011 | 0.00080 | <0.0005 | <0.0005 | 0.0013 | 0.00090 | 0.00060 |
| Calcium | 140.00 | 140.00 | 130.00 | 130.00 | 170.00 | 150.00 | 250.00 | 220.00 | 160.00 | 150.00 | 150.00 | 150.00 | 610.00 | | 630.00 | 100.00 | 93.00 | 130.00 |
| Iron | 0.25 | 1.90 | 0.20 | 1.30 | 0.36 | 0.35 | 4.40 | 3.20 | 2.90 | 2.00 | 1.20 | 1.20 | 1.70 | 1.20 | 0.37 | 0.69 | 0.72 | 0.54 |
| Lead | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.0011 | 0.00020 | 0.0012 | 0.0021 | 0.00040 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00060 | <0.0002 | 0.00020 | 0.00040 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | 0.00024 | 0.00011 | 0.000090 | 0.000070 | <0.00005 | 0.000060 | 0.0011 | **0.0020** | **0.0012** | 0.00029 | 0.00079 | 0.00026 |
| Nickel | 0.0017 | 0.0012 | 0.0016 | 0.0022 | 0.0017 | 0.0018 | 0.015 | 0.012 | 0.012 | 0.0033 | 0.0048 | 0.0061 | 0.023 | 0.018 | 0.013 | 0.016 | 0.018 | 0.013 |
| Selenium | 0.0014 | 0.0012 | 0.0010 | 0.0025 | 0.0023 | 0.0034 | 0.0063 | 0.0030 | 0.0029 | 0.0087 | 0.0026 | 0.0019 | 0.0055 | 0.0039 | 0.0046 | 0.0048 | 0.0037 | 0.0036 |
| Zinc | 0.0024 | 0.00080 | 0.0022 | 0.0015 | 0.0015 | 0.0026 | 0.0019 | 0.00070 | 0.0013 | 0.00060 | 0.0011 | 0.0011 | 0.0016 | 0.0014 | 0.0015 | 0.00090 | 0.00080 | 0.0015 |
| Benzene | 0.0010 | <0.001 | <0.001 | 0.13 | 0.17 | <0.001 | **0.43** | **0.84** | **1.90** | **0.43** | **0.37** | **2.10** | 0.039 | <0.001 | 0.022 | 0.023 | <0.001 | <0.001 |
| Toluene | <0.001 | <0.001 | <0.001 | 0.056 | 0.027 | <0.001 | 0.26 | 0.60 | 1.50 | 0.29 | 0.18 | 1.0 | 0.012 | <0.001 | <0.001 | 0.0040 | <0.001 | <0.001 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.037 | 0.11 | 0.39 | 0.10 | 0.043 | 0.26 | 0.010 | <0.001 | <0.001 | 0.0050 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | 0.13 | 0.14 | <0.001 | 0.063 | 0.24 | 0.88 | 0.16 | 0.073 | 0.44 | 0.016 | <0.001 | 0.010 | 0.0060 | <0.001 | <0.001 |
| Xylene (o-Xylene) | 0.0050 | 0.0040 | <0.001 | 0.087 | 0.10 | <0.001 | 0.057 | 0.17 | 0.50 | 0.10 | 0.058 | 0.29 | 0.010 | <0.001 | <0.001 | 0.0050 | <0.001 | <0.001 |
| Methyl tert-butyl ether | <0.003 | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | <0.003 | | |
| TPH (C10 - C40) | 1.32 | 1.49 | | 5.07 | 13.50 | | 5.23 | 5.19 | | 3.34 | 8.03 | | 4.26 | 3.98 | 1.57 | 2.36 | 1.88 | 1.57 |
| TPH Total C5 - C35 | 1.30 | 1.50 | 1.13 | 5.60 | 13.70 | 1.74 | 6.05 | 7.19 | 11.40 | 4.45 | 8.78 | 9.83 | 4.35 | 3.98 | 1.65 | 2.42 | 1.88 | 1.64 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | 0.061 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | 0.030 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <<0.10 & | <0.01 | <<0.10 & | **0.51** | <0.01 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <0.01 | <<0.10 & | <0.01 | <<0.10 & | 0.59 | <0.01 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <0.01 | <<0.10 & | <0.01 | <<0.10 & | 0.27 | <0.01 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <0.01 | <<0.10 & | <0.01 | <0.1 | 0.20 | <0.01 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | <0.01 | | 1.56 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | 0.090 | 1.56 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | 0.0026 | <0.001 | <0.001 | 0.14 | 0.17 | <0.001 | 0.44 | 0.85 | 1.90 | 0.44 | 0.38 | 2.10 | 0.040 | <0.001 | 0.029 | 0.023 | <0.001 | 0.028 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | 0.076 | 0.028 | <0.001 | 0.26 | 0.60 | 1.50 | 0.29 | 0.18 | 0.99 | 0.013 | <0.001 | <0.001 | 0.0043 | <0.001 | 0.0052 |
| Aromatic C8 – C10 | 0.0068 | 0.0064 | <0.001 | 0.22 | 0.24 | <0.001 | 0.18 | 0.54 | 1.90 | 0.38 | 0.19 | 1.10 | 0.070 | <0.001 | 0.053 | 0.023 | <0.001 | 0.032 |
| Aromatic C10 – C12 | 0.26 | 0.45 | 0.20 | 1.65 | 2.49 | 0.26 | 3.10 | 3.45 | 4.23 | 2.02 | 5.46 | 4.13 | 1.60 | 1.65 | 0.67 | 1.03 | 0.85 | 0.71 |
| Aromatic C12 – C16 | 0.46 | 0.62 | 0.38 | 2.31 | 4.08 | 0.58 | 1.16 | 1.14 | 1.11 | 0.93 | 1.48 | 1.0 | 0.78 | 0.78 | 0.34 | 0.55 | 0.43 | 0.35 |
| Aromatic C16 – C21 | 0.21 | 0.18 | 0.20 | 0.45 | 2.37 | 0.36 | 0.30 | 0.32 | 0.33 | 0.18 | 0.38 | 0.21 | 0.69 | 0.64 | 0.29 | 0.39 | 0.33 | 0.26 |
| Aromatic C21 – C35 | 0.36 | 0.25 | 0.34 | 0.66 | 2.77 | 0.54 | 0.60 | 0.29 | 0.49 | 0.22 | 0.71 | 0.34 | 1.15 | 0.91 | 0.27 | 0.40 | 0.28 | 0.25 |
| Total Aromatic C10 - C35 | 1.29 | 1.49 | 1.13 | | 11.70 | 1.74 | 5.17 | 5.19 | 6.15 | | 8.03 | 5.68 | 4.23 | 3.98 | 1.57 | | 1.88 | 1.57 |
| Total Aromatic C5 - C35 | 1.30 | 1.50 | 1.13 | 5.51 | 12.20 | 1.74 | 6.05 | 7.19 | 11.40 | 4.45 | 8.78 | 9.83 | 4.35 | 3.98 | 1.65 | 2.42 | 1.88 | 1.64 |
| Chloromethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Chloroethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Bromomethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Vinyl chloride (Chloroethene) | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Trichlorofluoromethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,1-Dichloroethene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Trans 1,2-dichloroethylene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,1-Dichloroethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 2,2-Dichloropropane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Trichloromethane (Chloroform) | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,1,1-Trichloroethane (TCA) | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,2-Dichloroethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,1-Dichloropropene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Cis-1,2-dichloroethene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Carbontetrachloride | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,2-Dichloropropane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Trichloroethene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Dibromomethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Bromodichloromethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Cis-1,3-dichloropropene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Trans-1,3-dichloropropene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,1,2 Trichloroethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,3-Dichloropropane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Dibromochloromethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Tetrachloroethene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,2-Dibromoethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| ChloroBenzene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Styrene | | | | <0.003 | <0.003 | <0.003 | 0.052 | 0.11 | 0.30 | | | | <0.003 | <0.003 | <0.003 | | | |
| Bromoform | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,1,2,2-Tetrachloroethane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Bromobenzene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| n-Propylbenzene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 2-Chlorotoluene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 4-Chlorotoluene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,3,5-Trimethylbenzene | | | | <0.003 | 0.044 | <0.003 | <0.003 | 0.015 | 0.057 | | | | <0.003 | <0.003 | <0.003 | | | |
| tert-Butylbenzene | | | | <0.003 | 0.0091 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,2,4-Trimethylbenzene | | | | **0.060** | **0.079** | <0.003 | <0.003 | **0.047** | **0.17** | | | | 0.023 | <0.003 | <0.003 | | | |
| sec-Butylbenzene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,3-dichlorobenzene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| p-Isopropyltoluene | | | | <0.003 | 0.0047 | <0.003 | <0.003 | <0.003 | <0.003 | | | | 0.0053 | <0.003 | <0.003 | | | |
| 1,4-dichlorobenzene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,2-dichlorobenzene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | 0.011 | <0.003 | <0.003 | | | |
| Butylbenzene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,2-Dibromo-3-chloropropane | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,2,4-trichlorobenzene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| Hexachlorobutadiene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |
| 1,2,3-trichlorobenzene | | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | <0.003 | | | |

| Analytical Parameter | GHA | GHA | GHA | GHB | GHB | GHB | Primary Purifiers | Primary Purifiers | Primary Purifiers | Purifer Catch box | Purifer Catch box | Purifer Catch box | Brick structure | Brick structure | Brick structure | Oxide shed | Oxide shed | Oxide shed | Scrubbers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | MW25-23B | MW25-23B | MW25-23B | MW25-25 | MW25-25 | MW25-25 | MW25-11 | MW25-11 | MW25-11 | MW25-14 | MW25-14 | MW25-14 | MW25-09C | MW25-09C | MW25-09C | MW25-12 | MW25-12 | MW25-12 | MW25-16A-D |
| Monitoring Round No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 |
| Date Sampled | 18/03/2025 | 10/04/2025 | 07/05/2025 | 19/03/2025 | 09/04/2025 | 30/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 |
| Stratum | | Made Ground/Wolston Clay Member | | | Wolston Sand & Gravel | | | Wolston Sand & Gravel | | | Made Ground | | | Made Ground | | | Wolston Sand & Gravel | | |
| pH | 7.70 | 7.60 | 7.60 | 7.40 | 7.30 | 7.30 | 7.50 | 7.80 | 7.50 | 7.40 | 7.30 | 7.20 | 7.60 | 7.80 | 7.60 | 7.10 | 7.20 | 7.20 | 7.50 |
| Conductivity | 1300.00 | 1500.00 | 1600.00 | 2100.00 | 2000.00 | 2000.00 | 2000.00 | 1700.00 | 1700.00 | 3400.00 | 3700.00 | 3400.00 | 2500.00 | 2400.00 | 2400.00 | 2100.00 | 2200.00 | 2200.00 | 6900.00 |
| Cyanide (Total) (as CN) | 0.12 | 0.10 | 0.10 | 0.19 | 0.18 | 0.25 | 0.74 | 0.56 | 0.080 | 4.50 | 7.20 | 4.60 | 1.50 | 1.40 | 1.40 | 0.31 | 0.22 | 0.10 | 0.48 |
| Complexed cyanide | 0.12 | 0.10 | 0.10 | 0.19 | 0.18 | 0.25 | 0.74 | 0.56 | 0.080 | 4.40 | 7.20 | 4.50 | 1.50 | 1.40 | 1.40 | 0.31 | 0.22 | 0.10 | 0.47 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | 0.070 | 0.050 | 0.020 | 0.010 | 0.020 | <0.01 | <0.01 | <0.01 | 0.010 |
| Thiocyanate | 1.0 | 1.0 | 1.0 | 0.30 | 0.40 | 0.50 | 0.30 | <0.2 | <0.2 | 4.10 | 12.00 | 4.40 | 0.60 | 0.40 | 0.20 | <0.2 | <0.2 | <0.2 | 0.90 |
| Sulphate | 65.30 | 73.00 | 38.80 | 193.00 | 262.00 | 274.00 | 851.00 | 625.00 | 245.00 | 1730.00 | 2050.00 | 1920.00 | 1280.00 | 1210.00 | 1130.00 | 211.00 | 181.00 | 138.00 | 71.00 |
| Sulphur (Elemental) | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | 0.033 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 200.00 | 230.00 | 280.00 | 190.00 | 190.00 | 180.00 | 200.00 | 190.00 | 300.00 | 350.00 | 430.00 | 340.00 | 170.00 | 140.00 | 130.00 | 510.00 | 560.00 | 560.00 | 1900.00 |
| Ammonium as NH4 | 79.00 | 98.00 | 100.00 | 77.00 | 95.00 | 83.00 | 0.095 | <0.015 | <0.015 | 46.00 | 54.00 | 44.00 | 3.10 | 2.70 | 2.80 | 7.00 | 7.60 | 6.30 | 600.00 |
| Dissolved Organic Carbon (DOC) | 38.40 | 64.10 | 85.60 | 24.60 | 24.50 | 98.50 | 4.29 | 3.64 | 2.82 | 22.80 | 34.10 | 33.10 | 7.99 | 6.85 | 7.80 | 3.57 | 2.89 | 2.94 | 29.10 |
| Total Suspended Solids | 190.00 | 100.00 | 290.00 | 250.00 | 1200.00 | 180.00 | 35.00 | 30.00 | 370.00 | 190.00 | 150.00 | 36.00 | 54.00 | 26.00 | 28.00 | 150.00 | 49.00 | 240.00 | 200.00 |
| Total Organic Carbon (TOC) | 38.90 | 65.20 | 86.20 | 25.20 | 27.60 | 104.00 | 4.64 | 3.70 | 2.88 | 23.10 | 37.10 | 34.00 | 8.16 | 7.07 | 7.95 | 3.85 | 3.18 | 2.95 | 30.50 |
| Alkalinity as CaCO3 | 420.00 | 450.00 | 450.00 | 650.00 | 700.00 | 700.00 | 240.00 | 270.00 | 250.00 | 95.00 | 110.00 | 120.00 | 450.00 | 390.00 | 420.00 | 250.00 | 240.00 | 250.00 | 760.00 |
| Hardness - Total | 270.00 | 305.00 | 381.00 | 431.00 | 528.00 | 378.00 | 833.00 | 548.00 | 461.00 | 1640.00 | 1360.00 | 1950.00 | 1330.00 | 1080.00 | 1480.00 | 300.00 | 300.00 | 287.00 | 372.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.26 |
| Resorcinol | <0.0005 | <0.0005 | 0.48 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | 2.80 | <0.0005 | 4.30 | <0.0005 | <0.0005 | 5.60 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.13 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.88 |
| Naphthols | 2.20 | <0.0005 | 1.80 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.14 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.41 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.30 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 1.50 |
| Total Xylenols & Ethylphenols | 17.00 | 29.00 | 30.00 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.39 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 6.60 |
| Phenol | 0.060 | 5.50 | 7.60 | <0.0005 | 3.50 | 3.70 | <0.0005 | 0.012 | <0.0005 | <0.0005 | 0.37 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 1.40 |
| Trimethylphenol | 8.30 | 14.00 | 16.00 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.26 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 2.40 |
| Phenols (Total) | 30.00 | 48.00 | 60.00 | <0.0035 | 3.50 | 9.40 | <0.0035 | 0.012 | <0.0035 | <0.0035 | 1.60 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | 13.00 |
| Naphthalene | **2.30** | **3.60** | **6.80** | 0.0050 | **1.20** | 0.22 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.039 | 0.019 | 0.015 | <0.00001 | 0.0070 | 0.00038 | 0.0013 | 0.0032 | **4.90** |
| Acenaphthylene | 0.15 | 0.18 | 0.57 | 0.051 | 0.12 | 0.059 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00090 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000070 | 0.19 |
| Acenaphthene | 0.016 | 0.022 | 0.027 | 0.011 | 0.023 | 0.015 | <0.00001 | <0.00001 | <0.00001 | 0.00068 | 0.00019 | 0.0019 | 0.010 | 0.0061 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.017 |
| Fluorene | 0.056 | 0.079 | 0.36 | 0.018 | 0.081 | 0.024 | <0.00001 | <0.00001 | <0.00001 | 0.00082 | 0.00018 | 0.0023 | 0.00064 | 0.00061 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.039 |
| Phenanthrene | 0.058 | 0.11 | 0.66 | 0.028 | 0.22 | 0.039 | <0.00001 | <0.00001 | <0.00001 | 0.0012 | 0.00014 | <0.00001 | 0.00040 | 0.00061 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.052 |
| Anthracene | 0.022 | 0.044 | 0.28 | 0.0060 | 0.069 | 0.013 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.012 |
| Fluoranthene | 0.013 | 0.053 | 0.40 | 0.0071 | 0.14 | 0.020 | <0.00001 | <0.00001 | <0.00001 | 0.00041 | 0.00013 | <0.00001 | 0.00085 | 0.00080 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.018 |
| Pyrene | 0.0091 | 0.040 | 0.32 | 0.0050 | 0.12 | 0.015 | <0.00001 | <0.00001 | <0.00001 | 0.00045 | <0.00001 | <0.00001 | 0.00062 | 0.00058 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.013 |
| Benzo[a]anthracene | <0.00020 | 0.019 | 0.16 | 0.0013 | 0.050 | 0.0040 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0040 |
| Chrysene | <0.00020 | 0.016 | 0.038 | 0.0012 | 0.044 | 0.0036 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0033 |
| Benzo[b]fluoranthene | <0.00020 | 0.015 | 0.036 | <0.0001 | 0.040 | 0.0029 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0002 |
| Benzo[k]fluoranthene | <0.00020 | 0.0084 | 0.015 | <0.0001 | 0.022 | 0.0017 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0002 |
| Benzo[a]pyrene | <0.00020 | 0.017 | 0.035 | <0.00001 | 0.041 | 0.0034 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0036 |
| Indeno[1,2,3-cd]pyrene | 0.00066 | 0.0066 | 0.012 | 0.00036 & | 0.018 | 0.0013 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0017 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00010 | 0.0032 | <0.0001 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00028 |
| Benzo[ghi]perylene | 0.00068 & | 0.0058 | 0.013 | 0.00039 | 0.019 | 0.0013 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.0001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0020 |
| PAH 16 Total | 2.60 | 4.30 | 9.80 | 0.14 | 2.30 | 0.43 | <0.00016 | <0.00016 | <0.00016 | 0.0036 | 0.039 | 0.023 | 0.028 | 0.0081 | 0.0070 | 0.00038 | 0.0013 | 0.0033 | 5.20 |
| Arsenic | 0.0045 | 0.0098 | 0.012 | 0.014 | 0.0060 | 0.014 | 0.00070 | 0.00060 | 0.00074 | 0.0091 | 0.0081 | 0.012 | 0.0084 | 0.011 | 0.0085 | 0.00036 | 0.00068 | 0.00043 | 0.0094 |
| Cadmium | <0.00002 | <0.00002 | <0.00002 | 0.000020 | <0.00002 | 0.000030 | 0.000060 | 0.000040 | 0.000060 | 0.000020 | <0.00002 | 0.000020 | <0.00002 | <0.00002 | <0.00002 | 0.000050 | 0.000020 | 0.000050 | <0.00002 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | U/S [*U/S g] | U/S [*U/S g] | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.00034 | <0.0002 | 0.00029 | 0.00056 | 0.00078 | 0.00095 | 0.00027 | <0.0002 | <0.0002 | 0.0015 | 0.0035 | 0.0019 | 0.0031 | 0.00021 | 0.00044 | 0.00023 | <0.0002 | <0.0002 | 0.00025 |
| Copper | 0.00090 | 0.0019 | 0.0040 | 0.0040 | 0.0043 | 0.0031 | 0.0059 | 0.0029 | 0.0095 | 0.0021 | 0.0012 | 0.0030 | 0.0013 | 0.0027 | 0.011 | 0.0019 | 0.0013 | 0.0017 | 0.0011 |
| Calcium | 74.00 | 77.00 | 92.00 | 130.00 | 150.00 | 110.00 | 310.00 | 190.00 | 150.00 | 570.00 | 460.00 | 690.00 | 470.00 | 380.00 | 540.00 | 98.00 | 99.00 | 97.00 | 73.00 |
| Iron | 0.17 | 0.58 | 0.12 | 0.73 | 0.14 | 0.094 | 0.31 | 0.25 | 0.083 | 1.90 | 3.00 | 2.10 | 0.63 | 0.59 | 0.57 | 0.20 | 0.13 | 0.32 | 0.37 |
| Lead | <0.0002 | 0.00040 | <0.0002 | <0.0002 | 0.00030 | 0.00040 | <0.0002 | <0.0002 | <0.0002 | 0.00070 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0044 | 0.0024 | 0.0024 | 0.0030 | 0.0056 | 0.0038 | 0.0049 | 0.0058 | 0.0076 | 0.014 | 0.022 | 0.018 | 0.00090 | 0.00080 | 0.0022 | 0.0042 | 0.0023 | 0.0037 | 0.0041 |
| Selenium | 0.0053 | 0.0038 | 0.0060 | 0.0049 | 0.0067 | 0.0038 | 0.00060 | <0.0006 | 0.0011 | 0.015 | 0.012 | 0.0074 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | 0.0027 |
| Zinc | 0.0022 | 0.0015 | 0.0068 | 0.0030 | 0.0023 | 0.0023 | 0.0047 | 0.0020 | 0.020 | 0.0050 | 0.0028 | 0.0062 | 0.0038 | 0.0021 | 0.046 | 0.0059 | 0.0025 | 0.0030 | 0.0017 |
| Benzene | **22.00** | **19.00** | **20.00** | 0.12 | **0.63** | **0.81** | <0.001 | <0.001 | <0.001 | <0.001 | 0.039 | <0.001 | 0.0080 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | **4.70** |
| Toluene | 14.00 | 11.00 | 13.00 | 0.027 | 0.14 | 0.066 | <0.001 | <0.001 | <0.001 | <0.001 | 0.018 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.81 |
| Ethylbenzene | 0.28 | 0.13 | 0.35 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0070 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.090 |
| Xylene (p & m-Xylene) | 2.70 | 1.70 | 4.10 | <0.001 | 0.021 | 0.032 | <0.001 | <0.001 | <0.001 | 0.042 | 0.14 | 0.044 | 0.0020 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.94 |
| Xylene (o-Xylene) | 1.50 | 0.86 | 2.00 | <0.001 | 0.014 | 0.020 | <0.001 | <0.001 | <0.001 | 0.018 | 0.11 | 0.026 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.47 |
| Methyl tert-butyl ether | <0.003 | <0.003 | <0.003 | <0.003 | | | <0.003 | | | <0.003 | | | <0.003 | | | <0.003 | | | <0.003 |
| TPH (C10 - C40) | 39.60 | 45.70 | | 5.14 | 14.30 | | <0.01 | <0.01 | <0.01 | 1.54 | 8.52 | 2.86 | 1.08 | 0.74 | 2.86 | <0.01 | <0.01 | <0.01 | 29.90 |
| TPH Total C5 - C35 | 79.80 | 78.00 | 135.00 | 5.25 | 15.10 | 6.59 | <0.01 | <0.01 | <0.01 | 1.61 | 8.78 | 2.94 | 1.10 | 0.73 | 2.86 | <0.01 | <0.01 | <0.01 | 36.60 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <<0.20 & | <<0.10 & | **1.32** | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.1 & | <0.01 | <0.01 | <0.01 | <<0.20 & |
| Aliphatic C12 – C16 | <<0.20 & | <<0.10 & | 0.44 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.1 & | <0.01 | <0.01 | <0.01 | <<0.20 & |
| Aliphatic C16 - C21 | <<0.20 & | <<0.10 & | 0.17 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.1 & | <0.01 | <0.01 | <0.01 | <<0.20 & |
| Aliphatic C21 - C35 | <<0.20 & | <<0.10 & | 0.21 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.1 & | <0.01 | <0.01 | <0.01 | <<0.20 & |
| Total Aliphatic C10 - C35 | | <0.01 | 2.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | 2.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | 22.00 | 19.00 | 19.00 | 0.13 | 0.64 | 0.82 | <0.001 | <0.001 | <0.001 | <0.001 | 0.040 | <0.001 | 0.010 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 4.70 |
| Aromatic C7 - C8 | 14.00 | 11.00 | 13.00 | 0.027 | 0.14 | 0.067 | <0.001 | <0.001 | <0.001 | <0.001 | 0.019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.81 |
| Aromatic C8 – C10 | **4.50** | **2.60** | **6.60** | 0.014 | 0.042 | 0.067 | <0.001 | <0.001 | <0.001 | 0.075 | 0.25 | 0.082 | 0.0078 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 1.50 |
| Aromatic C10 – C12 | **22.20** | **28.40** | **55.50** | 1.88 | 6.76 | 2.93 | <0.01 | <0.01 | <0.01 | 0.64 | 3.63 | 1.21 | 0.29 | 0.14 | 0.75 | <0.01 | <0.01 | <0.01 | **20.90** |
| Aromatic C12 – C16 | 12.80 | 13.00 | 23.50 | 1.63 | 3.08 | 1.65 | <0.01 | <0.01 | <0.01 | 0.43 | 2.77 | 0.89 | 0.34 | 0.21 | 0.74 | <0.01 | <0.01 | <0.01 | 5.82 |
| Aromatic C16 – C21 | 3.52 | 3.57 | 9.17 | 0.74 | 2.25 | 0.76 | <0.01 | <0.01 | <0.01 | 0.18 | 1.08 | 0.40 | 0.21 | 0.15 | 0.33 | <0.01 | <0.01 | <0.01 | 1.63 |
| Aromatic C21 – C35 | 1.09 | 0.82 | 5.19 | 0.83 | 2.16 | 0.29 | <0.01 | <0.01 | <0.01 | 0.29 | 0.99 | 0.36 | 0.24 | 0.23 | 1.03 | <0.01 | <0.01 | <0.01 | 1.28 |
| Total Aromatic C10 - C35 | | 45.70 | 93.30 | 5.08 | 14.30 | 5.64 | <0.01 | <0.01 | <0.01 | 1.54 | 8.47 | 2.86 | | 0.73 | 2.86 | <0.01 | <0.01 | <0.01 | |
| Total Aromatic C5 - C35 | 79.80 | 78.00 | 132.00 | 5.25 | 15.10 | 6.59 | <0.01 | <0.01 | <0.01 | 1.61 | 8.78 | 2.94 | 1.10 | 0.73 | 2.86 | <0.01 | <0.01 | <0.01 | 36.60 |
| 4-Chlorophenol | 0 | | | | | | | | | | | | | | | | | | |
| 3,5-Dimethylphenol | 0 | | | | | | | | | | | | | | | | | | |
| Chloromethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Chloroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Bromomethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Vinyl chloride (Chloroethene) | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Trichlorofluoromethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Trans 1,2-dichloroethylene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 2,2-Dichloropropane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Trichloromethane (Chloroform) | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,2-Dichloroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,1-Dichloropropene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Cis-1,2-dichloroethene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Carbontetrachloride | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,2-Dichloropropane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Trichloroethene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Dibromomethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Bromodichloromethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Cis-1,3-dichloropropene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Trans-1,3-dichloropropene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,1,2 Trichloroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,3-Dichloropropane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Dibromochloromethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Tetrachloroethene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,2-Dibromoethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| ChloroBenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Styrene | 1.54 | 1.0 | 2.27 | | | | | | | | | | | | | | | | |
| Bromoform | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| Bromobenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| n-Propylbenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 2-Chlorotoluene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 4-Chlorotoluene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | 0.052 | 0.049 | 0.15 | | | | | | | | | | | | | | | | |
| tert-Butylbenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | **0.11** | **0.12** | **0.37** | | | | | | | | | | | | | | | | |
| sec-Butylbenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,3-dichlorobenzene | <<0.00100 & | <0.00005 | <0.003 | | | | | | | | | | | | | | | | |
| p-Isopropyltoluene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,4-dichlorobenzene | <<0.00100 & | <0.00005 | <0.003 | | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | <<0.00100 & | <0.00005 | <0.003 | | | | | | | | | | | | | | | | |
| Butylbenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | <<0.00100 & | <0.00005 | <0.003 | | | | | | | | | | | | | | | | |
| Hexachlorobutadiene | <<0.00100 & | <0.00005 | <0.003 | | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | | | | | | |
| 3+4-Methylphenol | <0.0001 | <0.0001 | | | | | | | | | | | | | | | | | |
| Aniline | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 2-chlorophenol | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 2-Methylphenol | <0.00005 | <0.00005 | | | | | | | | | | | | | | | | | |
| Hexachloroethane | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Nitrobenzene | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 4-Methylphenol | <0.00005 | <0.00005 | | | | | | | | | | | | | | | | | |
| Isophorone | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 2-Nitrophenol | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | 6.90 | 10.00 | | | | | | | | | | | | | | | | | |
| Bis(2-chloroethoxy)methane | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 4-Chloroaniline | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | 0.29 | 0.22 | | | | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Dimethylphthalate | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | <0.00005 | <0.00005 | | | | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Dibenzofuran | 0.049 | 0.059 | | | | | | | | | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Diethyl phthalate | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| 4-Nitroaniline | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Azobenzene | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Bromophenyl phenyl ether | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Hexachlorobenzene | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Carbazole | 0.20 | 0.24 | | | | | | | | | | | | | | | | | |
| Dibutyl phthalate | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Anthraquinone | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |
| Butyl benzyl phthalate | <<0.00100 & | <0.00005 | | | | | | | | | | | | | | | | | |

# Table D: Groundwater Vapour Analytical Data - Area B

**NUMBER OF SAMPLES: 124**

| | | | CRITERIA 1 | CRITERIA 2 | | EXCEEDS BOTH: CRITERIA 1 | CRITERIA 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analytical Parameter** | **Units** | **Limit of detection** | **Residential** | **Commercial** | **No. Analyses** | **Exceedances** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** |
| pH | pH Units | N/A | | | 124.00 | | | 5.9 | 7.6 | 11.50 | MW25-22 |
| Conductivity | µS/cm | 10 | | | 124.00 | | | <10 | <2453 | 7200 | MW25-17 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.76 | 8.60 | MW25-10 |
| Complexed cyanide | mg.L$^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.75 | 8.50 | MW25-10 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.01 | 0.07 | MW25-14 |
| Thiocyanate | mg.L$^{-1}$ | 0.2 | | | 124.00 | | | <0.2 | <0.8 | 12 | MW25-14 |
| Sulphate | mg.L$^{-1}$ | 0.045 | | | 124.00 | | | <0.045 | <532.473 | 2220 | MW25-17 |
| Sulphur (Elemental) | mg.L$^{-1}$ | 0.02 | | | 82.00 | | | <0.02 | <0.02 | 0.04 | CBH102 |
| Sulphide | mg.L$^{-1}$ | 0.005 | | | 124.00 | | | <0.005 | <0.172 | 5.90 | MW25-17 |
| Chloride | mg.L$^{-1}$ | 0.15 | | | 124.00 | | | <0.15 | <435.92 | 1900 | MW25-17 |
| Ammonium as NH4 | mg.L$^{-1}$ | 0.015 | | | 124.00 | | | <0.015 | <52.785 | 680 | MW25-27 |
| Dissolved Organic Carbon (DOC) | mg.L$^{-1}$ | 0.1 | | | 124.00 | | | 0.2 | 20.8 | 235 | MW25-27 |
| Total Suspended Solids | mg.L$^{-1}$ | 2 | | | 124.00 | | | <2 | <1165.1 | 110000 | CBH129 |
| Total Organic Carbon (TOC) | mg.L$^{-1}$ | 0.1 | | | 124.00 | | | 0.69 | 23.2 | 264 | MW25-27 |
| Alkalinity as CaCO3 | mgCaCO.L$^{-1}$ | 3 | | | 124 | | | <3 | <370.3 | 1200 | MW25-27 |
| Hardness - Total | mgCaCO.L$^{-1}$ | 1 | | | 124 | | | <1 | <677.5 | 2520 | MW25-08 |
| Catechol | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.2716 | 14 | MW25-27 |
| Resorcinol | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0174 | 0.48 | MW25-23B |
| Cresols (Total) | mg.L$^{-1}$ | 0.0005 | | | 124 | | | <0.0005 | <1.3606 | 50 | MW25-27 |
| Naphthols | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0545 | 2.20 | MW25-23B |
| Isopropylphenol | mg.L$^{-1}$ | 0.0005 | | | 124 | | | <0.0005 | <0.1441 | 10 | MW25-27 |
| Total Xylenols & Ethylphenols | mg.L$^{-1}$ | 0.0005 | | | 124 | | | <0.0005 | <2.4394 | 66 | MW25-27 |
| Phenol | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.9234 | 56 | MW25-27 |
| Trimethylphenol | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.5356 | 16 | MW25-23B |
| Phenols (Total) | mg.L$^{-1}$ | 0.0035 | | | 124.00 | | | <0.0035 | <5.7797 | 190 | MW25-27 |
| Naphthalene | mg.L$^{-1}$ | 0.00001 | 0.22 | 23 | 124.00 | 23 | 0 | <0.00001 | <0.45201 | 6.80 | MW25-23B |
| Acenaphthylene | mg.L$^{-1}$ | 0.00001 | 220 | 20000 | 124.00 | 0 | 0 | <0.00001 | <0.02513 | 0.57 | MW25-23B |
| Acenaphthene | mg.L$^{-1}$ | 0.00001 | 170 | 15000 | 124.00 | 0 | 0 | <0.00001 | <0.00564 | 0.12 | MW25-16A- |
| Fluorene | mg.L$^{-1}$ | 0.00001 | 210 | 18000 | 124.00 | 0 | 0 | <0.00001 | <0.01189 | 0.39 | MW25-16A- |
| Phenanthrene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.023 | 1.10 | MW25-16A- |
| Anthracene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00725 | 0.36 | MW25-16A- |
| Fluoranthene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.01305 | 0.81 | MW25-16A- |
| Pyrene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.0102 | 0.62 | MW25-16A- |
| Benzo[a]anthracene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00462 | 0.29 | MW25-16A- |
| Chrysene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.0032 | 0.25 | MW25-16A- |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00335 | 0.28 | MW25-16A- |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00159 | 0.13 | MW25-16A- |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00333 | 0.27 | MW25-16A- |
| Indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00145 | 0.12 | MW25-16A- |
| Dibenz(a,h)anthracene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00005 | 0.0032 | MW25-23B |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00156 | 0.13 | MW25-16A- |
| PAH 16 Total | mg.L$^{-1}$ | 0.00016 | | | 124.00 | | | <0.00016 | <0.56847 | 9.80 | MW25-23B |
| Arsenic | mg.L$^{-1}$ | 0.00015 | | | 124.00 | | | <0.00015 | <0.00863 | 0.088 | MW25-10 |
| Cadmium | mg.L$^{-1}$ | 0.00002 | | | 124.00 | | | <0.00002 | <0.00008 | 0.0007 | CBH124 |
| Chromium (VI) | mg.L$^{-1}$ | 0.005 | | | 124.00 | | | <0.005 | <0.005 | <0.005 | n/a |
| Chromium (Total) | mg.L$^{-1}$ | 0.0002 | | | 124.00 | | | <0.0002 | <0.0007 | 0.0064 | MW25-27 |
| Copper | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0032 | 0.017 | CBH108-DU |
| Calcium | mg.L$^{-1}$ | 0.012 | | | 122 | | | <0.012 | <217.347 | 830 | MW25-08 |
| Iron | mg.L$^{-1}$ | 0.004 | | | 124 | | | <0.004 | <0.516 | 4.4 | MW25-10 |
| Lead | mg.L$^{-1}$ | 0.0002 | | | 124.00 | | | <0.0002 | <0.0003 | 0.005 | CBH104 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00005 | 0.0011 | 0.095 | 124.00 | 2 | 0 | <0.00005 | <0.0001 | 0.002 | MW25-17 |
| Nickel | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0055 | 0.023 | MW25-17 |
| Selenium | mg.L$^{-1}$ | 0.0006 | | | 124.00 | | | <0.0006 | <0.0026 | 0.015 | MW25-14 |
| Zinc | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | 0.0006 | 0.0059 | 0.05 | CBH104 |
| Benzene | mg.L$^{-1}$ | 0.001 | 0.21 | 20 | 123.00 | 29 | 1 | <0.001 | <0.841 | 22 | MW25-23B |
| Toluene | mg.L$^{-1}$ | 0.001 | 230 | 21000 | 123.00 | 0 | 0 | <0.001 | <0.405 | 14 | MW25-23B |
| Ethylbenzene | mg.L$^{-1}$ | 0.001 | 10 | 960 | 123.00 | 0 | 0 | <0.001 | <0.022 | 0.39 | MW25-10 |
| Xylene (p & m-Xylene) | mg.L$^{-1}$ | 0.001 | | | 123.00 | | | <0.001 | <0.147 | 4.10 | MW25-23B |
| Xylene (o-Xylene) | mg.L$^{-1}$ | 0.001 | 12 | 1100 | 123.00 | 0 | 0 | <0.001 | <0.087 | 2 | MW25-23B |
| Methyl tert-butyl ether | mg.L$^{-1}$ | 0.003 | 83 | 7800 | 56.00 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| TPH (C10 - C40) | mg.L$^{-1}$ | 0.01 | | | 111.00 | | | <0.01 | <6.45 | 166 | MW25-27 |
| TPH Total C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <10.06 | 203 | MW25-27 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 0.001 | 1.9 | 190 | 124.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 0.001 | 1.5 | 150 | 124.00 | 0 | 0 | <0.001 | <0.001 | 0.061 | MW25-33 |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.001 | 0.057 | 5.7 | 124.00 | 0 | 0 | <0.001 | <0.001 | 0.030 | MW25-33 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.01 | 0.037 | 3.6 | 124.00 | 6 | 0 | <0.01 | <0.07 | 3.11 | MW25-27 |
| Aliphatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.03 | 0.62 | MW25-27 |
| Aliphatic C16 - C21 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.02 | 0.32 | CBH129 |
| Aliphatic C21 - C35 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.02 | 0.7 | CBH129 |
| Total Aliphatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 110 | | | <0.01 | <0.12 | 3.92 | MW25-27 |
| Total Aliphatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.11 | 3.92 | MW25-27 |
| Aromatic C5 - C7 | mg.L$^{-1}$ | 0.001 | 210 | 20000 | 124.00 | 0 | 0 | <0.001 | <0.826 | 22 | MW25-23B |
| Aromatic C7 - C8 | mg.L$^{-1}$ | 0.001 | 220 | 21000 | 124.00 | 0 | 0 | <0.001 | <0.402 | 14 | MW25-23B |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 0.001 | 1.9 | 190 | 124.00 | 4 | 0 | <0.001 | <0.26 | 6.60 | MW25-23B |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.01 | 6.8 | 660 | 124.00 | 16 | 0 | <0.01 | <5.87 | 156 | MW25-27 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.01 | 39 | 3700 | 124.00 | 0 | 0 | <0.01 | <1.84 | 33.70 | MW25-27 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.41 | 9.17 | MW25-23B |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.38 | 8 | MW25-16A- |
| Total Aromatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 110 | | | <0.01 | <6.75 | 192 | MW25-27 |
| Total Aromatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <9.95 | 199 | MW25-27 |
| 4-Chlorophenol | mg.L$^{-1}$ | 0.0001 | | | 1 | | | 0 | 0 | 0 | MW25-23B |
| 3,5-Dimethylphenol | mg.L$^{-1}$ | 0.0001 | | | 1 | | | 0 | 0 | 0 | MW25-23B |
| Chloromethane | mg.L$^{-1}$ | 0.003 | 0.014 | 1.4 | 22 | 0 | 0 | <0.001 | <0.003 | <0.003 | MW25-33 |
| Chloroethane | mg.L$^{-1}$ | 0.003 | 10 | 1000 | 22 | 0 | 0 | <0.001 | <0.003 | <0.003 | MW25-33 |
| Bromomethane | mg.L$^{-1}$ | 0.003 | | | 22 | | | <0.001 | <0.003 | <0.003 | MW25-33 |
| Vinyl chloride (Chloroethene) | mg.L$^{-1}$ | 0.003 | 0.00062 | 0.063 | 22 | 0 | 0 | <0.001 | <0.003 | <0.003 | MW25-33 |
| Trichlorofluoromethane | mg.L$^{-1}$ | 0.003 | | | 22 | | | <0.001 | <0.003 | <0.003 | MW25-33 |
| 1,1-Dichloroethene | mg.L$^{-1}$ | 0.003 | 0.16 | 16 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Trans 1,2-dichloroethylene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,1-Dichloroethane | mg.L$^{-1}$ | 0.003 | 2.7 | 260 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 2,2-Dichloropropane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Trichloromethane (Chloroform) | mg.L$^{-1}$ | 0.003 | 0.79 | 85 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,1,1-Trichloroethane (TCA) | mg.L$^{-1}$ | 0.003 | 3 | 290 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,2-Dichloroethane | mg.L$^{-1}$ | 0.003 | 0.0089 | 0.85 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,1-Dichloropropene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Cis-1,2-dichloroethene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Carbontetrachloride | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,2-Dichloropropane | mg.L$^{-1}$ | 0.003 | 0.022 | 2.6 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| Trichloroethene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Dibromomethane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Bromodichloromethane | mg.L$^{-1}$ | 0.003 | 0.017 | 1.6 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| Cis-1,3-dichloropropene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Trans-1,3-dichloropropene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,1,2 Trichloroethane | mg.L$^{-1}$ | 0.003 | 0.52 | 49 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,3-Dichloropropane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Dibromochloromethane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Tetrachloroethene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,2-Dibromoethane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| ChloroBenzene | mg.L$^{-1}$ | 0.003 | 0.098 | 15 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | mg.L$^{-1}$ | 0.003 | 0.24 | 22 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| Styrene | mg.L$^{-1}$ | 0.003 | 8.8 | 810 | 21 | 0 | 0 | <0.003 | <0.253 | 2.27 | MW25-23B |
| Bromoform | mg.L$^{-1}$ | 0.003 | 3.1 | 400 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 1,1,2,2-Tetrachloroethane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| Bromobenzene | mg.L$^{-1}$ | 0.003 | 0.22 | 20 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| n-Propylbenzene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | 0.0123 | MW25-27 |
| 2-Chlorotoluene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 4-Chlorotoluene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,3,5-Trimethylbenzene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.034 | 0.152 | MW25-23B |
| tert-Butylbenzene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | 0.0091 | MW25-33 |
| 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.003 | 0.024 | 2.2 | 21 | 16 | 0 | <0.003 | <0.128 | 0.369 | MW25-23B |
| sec-Butylbenzene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,3-dichlorobenzene | mg.L$^{-1}$ | 0.003 | 0.031 | 2.8 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 |
| p-Isopropyltoluene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | 0.0053 | MW25-17 |
| 1,4-dichlorobenzene | mg.L$^{-1}$ | 0.003 | 5 | 460 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 |
| 1,2-dichlorobenzene | mg.L$^{-1}$ | 0.003 | 2 | 220 | 21 | 0 | 0 | <0.00005 | <0.002 | 0.011 | MW25-17 |
| Butylbenzene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,2-Dibromo-3-chloropropane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a |
| 1,2,4-trichlorobenzene | mg.L$^{-1}$ | 0.003 | 0.068 | 7.2 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 |
| Hexachlorobutadiene | mg.L$^{-1}$ | 0.003 | 0.0017 | 0.23 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 |
| 1,2,3-trichlorobenzene | mg.L$^{-1}$ | 0.003 | 0.035 | 3.1 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a |
| 3+4-Methylphenol | mg.L$^{-1}$ | 0.0001 | | | 8 | | | <0.0001 | <4.4151 | 13 | MW25-27 |
| Aniline | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.04378 | 0.19 | MW25-16A- |
| 2-chlorophenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Bis(2-chloroethyl)ether | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Bis(2-chloroisopropyl)ether | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2-Methylphenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <7.42503 | 23 | MW25-27 |
| Hexachloroethane | mg.L$^{-1}$ | 0.00005 | 0.0085 | 0.74 | 8 | 0 | 0 | <0.00005 | <0.00004 | <0.00005 | n/a |
| Nitrobenzene | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 4-Methylphenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <4.41503 | 13 | MW25-27 |
| Isophorone | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2-Nitrophenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2,4-Dimethylphenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <9.51001 | 22 | MW25-27 |
| Bis(2-chloroethoxy)methane | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2,4-Dichlorophenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 4-Chloroaniline | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 4-Chloro-3-methylphenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2,4,6-Trichlorophenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2,4,5-Trichlorophenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 2-Methylnaphthalene | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.28251 | 1.2 | MW25-16A- |
| 2-Chloronaphthalene | mg.L$^{-1}$ | 0.00005 | 0.16 | 14 | 8 | 0 | 0 | <0.00005 | <0.00026 | 0.0018 | MW25-16A- |
| Dimethylphthalate | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00016 | 0.001 | MW25-16A- |
| 2,6-Dinitrotoluene | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00005 | <0.00005 | n/a |
| 2,4-Dinitrotoluene | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Dibenzofuran | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.08076 | 0.43 | MW25-16A- |
| 4-Chlorophenyl phenyl ether | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Diethyl phthalate | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| 4-Nitroaniline | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Azobenzene | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Bromophenyl phenyl ether | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Hexachlorobenzene | mg.L$^{-1}$ | 0.00005 | 0.016 | 1.4 | 8 | 0 | 0 | <0.00005 | <0.00004 | <0.00005 | n/a |
| Carbazole | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.10319 | 0.25 | MW25-16A- |
| Dibutyl phthalate | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Anthraquinone | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| Butyl benzyl phthalate | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a |
| PCB Congener 28 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 52 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 101 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 118 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 138 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 153 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| PCB Congener 180 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a |
| Total ICES-7 PCBs | mg.L$^{-1}$ | 0.00014 | | | 5 | | | <0.00014 | <0.00011 | <0.00014 | n/a |

| Sample Location | MW25-16A-D | MW25-16A-D | MW25-16A-S | MW25-16A-S | MW25-16A-S | MW25-18 | MW25-18 | MW25-18 | MW25-20 | MW25-20 | MW25-20 | MW25-21 | MW25-21 | MW25-21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Feature | Scrubbers | Scrubbers | Scrubbers | Scrubbers | Scrubbers | Tar well | Tar well | Tar well | CWG plant | CWG plant | CWG plant | Boiler house | Boiler house | Boiler house |
| Monitoring Round No. | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Date Sampled | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 19/03/2025 | 09/04/2025 | 30/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 |
| Stratum | Boulder Clay | | Made Ground | | | Boulder Clay | | | Wolston Sand & Gravel | | | Wolston Sand & Gravel | | |
| pH | 7.50 | 7.40 | 7.60 | 7.60 | 7.50 | 7.40 | 7.50 | 7.40 | 7.30 | 7.00 | 7.10 | 7.50 | 7.30 | 7.20 |
| Conductivity | 6200.00 | 6000.00 | 4700.00 | 4100.00 | 640.00 | 2000.00 | 1900.00 | 2000.00 | 1500.00 | 1500.00 | 1400.00 | 2400.00 | 3000.00 | 3300.00 |
| Cyanide (Total) (as CN) | 0.43 | 0.46 | 0.51 | 0.75 | 0.58 | 0.46 | 0.76 | 0.93 | 0.070 | 0.080 | 0.090 | <0.01 | <0.01 | <0.01 |
| Complexed cyanide | 0.43 | 0.44 | 0.51 | 0.75 | 0.56 | 0.46 | 0.76 | 0.92 | 0.070 | 0.080 | 0.090 | <0.01 | <0.01 | <0.01 |
| Easily liberatable cyanide | <0.01 | 0.020 | <0.01 | <0.01 | 0.010 | <0.01 | <0.01 | 0.020 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | 0.80 | 0.90 | 1.70 | 1.60 | 1.70 | 0.20 | 0.20 | 0.30 | 0.50 | 0.50 | 0.50 | <0.2 | <0.2 | <0.2 |
| Sulphate | 70.40 | 81.20 | 445.00 | 298.00 | 272.00 | 473.00 | 458.00 | 473.00 | 322.00 | 193.00 | 101.00 | 83.40 | 74.60 | 92.10 |
| Sulphur (Elemental) | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 |
| Sulphide | <0.005 | <0.005 | 0.013 | 0.065 | 0.0060 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0050 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 1800.00 | 1800.00 | 1400.00 | 1300.00 | 37.00 | 260.00 | 260.00 | 260.00 | 81.00 | 110.00 | 110.00 | 750.00 | 1000.00 | 930.00 |
| Ammonium as NH4 | 620.00 | 490.00 | 88.00 | 84.00 | 57.00 | 0.96 | 0.58 | 1.20 | 44.00 | 46.00 | 42.00 | <0.015 | <0.015 | <0.015 |
| Dissolved Organic Carbon (DOC) | 31.70 | 36.20 | 53.80 | 34.10 | 43.90 | 6.37 | 6.07 | 6.80 | 21.70 | 24.10 | 24.80 | 2.44 | 2.84 | 2.75 |
| Total Suspended Solids | 52.00 | 43.00 | 3400.00 | 11000.00 | 150.00 | 75.00 | 40.00 | 17.00 | 390.00 | 370.00 | 150.00 | 8.60 | 29.00 | 11.00 |
| Total Organic Carbon (TOC) | 31.70 | 38.00 | 172.00 | 34.40 | 47.40 | 6.63 | 6.23 | 6.90 | 23.30 | 26.10 | 26.90 | 2.46 | 2.89 | 2.97 |
| Alkalinity as CaCO3 | 700.00 | 700.00 | 590.00 | 570.00 | 640.00 | 290.00 | 280.00 | 250.00 | 440.00 | 540.00 | 640.00 | 230.00 | 260.00 | 270.00 |
| Hardness - Total | 334.00 | 300.00 | 483.00 | 383.00 | 404.00 | 665.00 | 594.00 | 680.00 | 304.00 | 400.00 | 355.00 | 201.00 | 294.00 | 316.00 |
| Catechol | 0.27 | 0.25 | 0.11 | 0.13 | 0.25 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | 0.41 | <0.0005 | 0.24 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.26 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | 0.56 | <0.0005 | 0.79 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 2.30 | 3.10 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | 0.48 | 0.89 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.78 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | 0.48 | 0.82 | <0.0005 | <0.0005 | 0.91 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 1.30 | 2.50 | <0.0005 | <0.0005 | <0.0005 |
| Total Xylenols & Ethylphenols | 3.00 | 4.00 | 3.40 | <0.0005 | 3.20 | <0.0005 | 0.019 | <0.0005 | <0.0005 | 4.60 | 5.90 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | 1.0 | 1.0 | 0.13 | 0.85 | 1.70 | <0.0005 | <0.0005 | <0.0005 | 0.56 | 0.91 | 1.20 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | 1.40 | 1.80 | 2.40 | <0.0005 | 2.00 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 2.70 | 3.10 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | 6.80 | 8.80 | 7.60 | 1.20 | 8.10 | <0.0035 | 0.019 | <0.0035 | 0.56 | 13.00 | 16.00 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | **3.50** | **2.10** | **2.30** | **4.80** | 0.00011 | <0.00001 | <0.00001 | <0.00001 | **0.57** | **2.40** | **1.10** | 0.00032 | <0.00001 | 0.00029 |
| Acenaphthylene | 0.13 | 0.14 | 0.56 | 0.13 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.029 | 0.034 | 0.022 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | 0.014 | 0.017 | 0.12 | 0.030 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0054 | 0.0066 | 0.0039 | <0.00001 | <0.00001 | 0.00012 |
| Fluorene | 0.029 | 0.035 | 0.39 | 0.062 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0054 | 0.0075 | 0.0046 | <0.00001 | <0.00001 | 0.00010 |
| Phenanthrene | 0.028 | 0.023 | 1.10 | 0.24 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0040 | 0.0074 | 0.0015 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | <0.0001 | <0.00001 | 0.36 | 0.022 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0010 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | 0.0037 | 0.0032 | 0.81 | 0.035 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0013 | 0.0041 | 0.0011 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | <0.0001 | 0.0021 | 0.62 | 0.025 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00096 | 0.0031 | 0.00085 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | <0.0001 | <0.00001 | 0.29 | 0.0076 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00037 | 0.0014 | 0.00026 | <0.00001 | <0.00001 | 0.00015 |
| Chrysene | <0.00001 | <0.00001 | 0.25 | 0.0066 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00022 | 0.0011 | 0.00019 | <0.00001 | <0.00001 | 0.00022 |
| Benzo[b]fluoranthene | <0.0001 | <0.00001 | 0.28 | 0.0068 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0011 | <0.00001 | <0.00001 | <0.00001 | 0.00015 |
| Benzo[k]fluoranthene | <0.0001 | <0.00001 | 0.13 | 0.0027 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00052 | <0.00001 | <0.00001 | <0.00001 | 0.00025 |
| Benzo[a]pyrene | <0.0001 | <0.00001 | 0.27 | 0.0066 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0011 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | <0.0001 | <0.00001 | 0.12 | 0.0026 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00053 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | <0.0001 | <0.00001 | <0.00001 | <<0.0001 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.0001 | <0.00001 | 0.13 | 0.0031 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00049 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| PAH 16 Total | 3.70 | 2.30 | 7.70 | 5.40 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | 0.62 | 2.50 | 1.10 | 0.00032 | <0.00016 | 0.0013 |
| Arsenic | 0.013 | 0.0082 | 0.018 | 0.042 | 0.064 | 0.0028 | 0.0033 | 0.0029 | 0.0047 | 0.0057 | 0.0065 | 0.00071 | 0.00062 | 0.00067 |
| Cadmium | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00012 | 0.00012 | 0.00014 | 0.000030 | <0.00002 | <0.00002 | 0.000090 | 0.00014 | 0.00013 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | <0.0002 | <0.0002 | 0.0024 | 0.00095 | 0.00086 | 0.00074 | 0.00091 | 0.00083 | 0.0011 | <0.0002 | 0.00052 | 0.00041 | 0.00048 | <0.0002 |
| Copper | 0.00050 | 0.0015 | 0.00080 | 0.00070 | 0.0012 | 0.0083 | 0.0083 | 0.0086 | 0.0016 | 0.0049 | 0.0016 | 0.0031 | 0.0030 | 0.0033 |
| Calcium | 69.00 | 60.00 | 140.00 | | 120.00 | 230.00 | 210.00 | 240.00 | 92.00 | 130.00 | 110.00 | 66.00 | 97.00 | 110.00 |
| Iron | 0.25 | 0.33 | 1.0 | 0.41 | 0.52 | 0.21 | 0.29 | 0.41 | 1.20 | 0.20 | 0.18 | 0.0060 | <0.004 | <0.004 |
| Lead | <0.0002 | <0.0002 | 0.00040 | 0.00020 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00080 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | 0.000060 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0030 | 0.0032 | 0.0068 | 0.0088 | 0.011 | 0.0060 | 0.0064 | 0.0060 | 0.0064 | 0.0032 | 0.0026 | 0.0012 | 0.0014 | 0.0014 |
| Selenium | 0.0020 | 0.0019 | 0.0030 | 0.0019 | 0.0020 | 0.0078 | 0.0076 | 0.0095 | 0.0065 | 0.0010 | 0.00090 | 0.0023 | 0.0024 | 0.0023 |
| Zinc | 0.0012 | 0.0015 | 0.0046 | 0.0023 | 0.0031 | 0.0052 | 0.0037 | 0.0057 | 0.0031 | 0.0022 | 0.0027 | 0.0063 | 0.0020 | 0.0030 |
| Benzene | **0.82** | **3.50** | **1.70** | **0.55** | **1.80** | <0.001 | <0.001 | <0.001 | **0.74** | **0.90** | **3.00** | <0.001 | <0.001 | <0.001 |
| Toluene | 0.096 | 0.33 | 0.40 | 0.099 | 0.33 | <0.001 | <0.001 | <0.001 | 0.23 | 0.22 | 0.88 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | 0.011 | <0.001 | 0.098 | 0.065 | 0.12 | <0.001 | <0.001 | <0.001 | 0.027 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | 0.091 | 0.50 | 0.77 | 0.27 | 0.90 | <0.001 | <0.001 | <0.001 | 0.15 | 0.17 | 0.66 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | 0.055 | 0.29 | 0.50 | 0.21 | 0.60 | <0.001 | <0.001 | <0.001 | 0.10 | 0.12 | 0.45 | <0.001 | <0.001 | <0.001 |
| Methyl tert-butyl ether | | | <0.003 | <0.003 | <0.003 | <0.003 | | | <0.003 | | | <0.003 | | |
| TPH (C10 - C40) | 19.60 | 11.00 | 51.40 | 23.80 | <0.01 | <0.01 | <0.01 | <0.01 | 13.20 | 20.30 | | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | 20.60 | 15.60 | 54.20 | 25.00 | 3.79 | <0.01 | <0.01 | <0.01 | 14.30 | 21.70 | 32.60 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <0.01 | <<0.40 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <0.01 | <0.01 | <<0.40 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <0.01 | <0.01 | <<0.40 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <0.01 | <0.01 | <<0.40 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | 0.81 | 3.50 | 1.70 | 0.55 | 1.80 | <0.001 | <0.001 | <0.001 | 0.73 | 0.90 | 2.90 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | 0.096 | 0.34 | 0.40 | 0.10 | 0.33 | <0.001 | <0.001 | <0.001 | 0.23 | 0.22 | 0.89 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | 0.16 | 0.81 | 1.40 | 0.57 | 1.70 | <0.001 | <0.001 | <0.001 | 0.29 | 0.30 | 1.10 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | **14.00** | **8.06** | **25.00** | **16.40** | <0.01 | <0.01 | <0.01 | <0.01 | **8.12** | **13.00** | **16.70** | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | 3.85 | 2.21 | 11.10 | 5.46 | <0.01 | <0.01 | <0.01 | <0.01 | 3.89 | 5.77 | 9.26 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | 1.02 | 0.57 | 6.69 | 1.19 | <0.01 | <0.01 | <0.01 | <0.01 | 0.47 | 1.01 | 1.26 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | 0.70 | 0.16 | 8.00 | 0.70 | <0.01 | <0.01 | <0.01 | <0.01 | 0.61 | 0.50 | 0.43 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | 19.60 | 11.00 | | 23.80 | <0.01 | <0.01 | <0.01 | <0.01 | 13.10 | 20.30 | 27.70 | | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | 20.60 | 15.60 | 54.20 | 25.00 | 3.79 | <0.01 | <0.01 | <0.01 | 14.30 | 21.70 | 32.60 | <0.01 | <0.01 | <0.01 |
| 4-Chlorophenol | | | | | | | | | | | | | | |
| 3,5-Dimethylphenol | | | | | | | | | | | | | | |
| Chloromethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Chloroethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Bromomethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Vinyl chloride (Chloroethene) | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Trichlorofluoromethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,1-Dichloroethene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Trans 1,2-dichloroethylene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,1-Dichloroethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 2,2-Dichloropropane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Trichloromethane (Chloroform) | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,2-Dichloroethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,1-Dichloropropene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Cis-1,2-dichloroethene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Carbontetrachloride | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,2-Dichloropropane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Trichloroethene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Dibromomethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Bromodichloromethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Cis-1,3-dichloropropene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Trans-1,3-dichloropropene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,1,2 Trichloroethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,3-Dichloropropane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Dibromochloromethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Tetrachloroethene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,2-Dibromoethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| ChloroBenzene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Styrene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Bromoform | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| Bromobenzene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| n-Propylbenzene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 2-Chlorotoluene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 4-Chlorotoluene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | | | <0.003 | 0.031 | 0.12 | | | | | | | | | |
| tert-Butylbenzene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | | | **0.26** | **0.14** | **0.34** | | | | | | | | | |
| sec-Butylbenzene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,3-dichlorobenzene | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| p-Isopropyltoluene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,4-dichlorobenzene | | | <0.00005 | <0.003 | <0.00005 | | | | | | | | | |
| 1,2-dichlorobenzene | | | <0.00005 | <0.003 | <0.00005 | | | | | | | | | |
| Butylbenzene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 1,2,4-trichlorobenzene | | | <0.00005 | <0.003 | <0.00005 | | | | | | | | | |
| Hexachlorobutadiene | | | <0.00005 | <0.003 | <0.00005 | | | | | | | | | |
| 1,2,3-trichlorobenzene | | | <0.003 | <0.003 | <0.003 | | | | | | | | | |
| 3+4-Methylphenol | | | <0.0001 | 0.32 | <0.0001 | | | | | | | | | |
| Aniline | | | 0.16 | 0.19 | <0.00005 | | | | | | | | | |
| 2-chlorophenol | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Bis(2-chloroethyl)ether | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 2-Methylphenol | | | <0.00005 | 0.40 | <0.00005 | | | | | | | | | |
| Hexachloroethane | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Nitrobenzene | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 4-Methylphenol | | | <0.00005 | 0.32 | <0.00005 | | | | | | | | | |
| Isophorone | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 2-Nitrophenol | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 2,4-Dimethylphenol | | | 1.20 | 0.98 | <0.00005 | | | | | | | | | |
| Bis(2-chloroethoxy)methane | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 2,4-Dichlorophenol | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 4-Chloroaniline | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 4-Chloro-3-methylphenol | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 2,4,6-Trichlorophenol | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 2,4,5-Trichlorophenol | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 2-Methylnaphthalene | | | 1.20 | 0.32 | <0.00005 | | | | | | | | | |
| 2-Chloronaphthalene | | | <0.00005 | 0.0018 | <0.00005 | | | | | | | | | |
| Dimethylphthalate | | | <0.00005 | 0.0010 | <0.00005 | | | | | | | | | |
| 2,6-Dinitrotoluene | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 2,4-Dinitrotoluene | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Dibenzofuran | | | 0.43 | 0.10 | <0.00005 | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Diethyl phthalate | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| 4-Nitroaniline | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Azobenzene | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Bromophenyl phenyl ether | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Hexachlorobenzene | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Carbazole | | | 0.25 | 0.13 | <0.00005 | | | | | | | | | |
| Dibutyl phthalate | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Anthraquinone | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| Butyl benzyl phthalate | | | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | |
| PCB Congener 28 | | | | | | | | | | | | | | |
| PCB Congener 52 | | | | | | | | | | | | | | |
| PCB Congener 101 | | | | | | | | | | | | | | |
| PCB Congener 118 | | | | | | | | | | | | | | |
| PCB Congener 138 | | | | | | | | | | | | | | |
| PCB Congener 153 | | | | | | | | | | | | | | |
| PCB Congener 180 | | | | | | | | | | | | | | |
| Total ICES-7 PCBs | | | | | | | | | | | | | | |

| Sample Location | MW25-27 | MW25-27 | MW25-27 | MW25-29 | MW25-29 | MW25-29 | MW25-31A | MW25-31A | MW25-31A | MW25-32 | MW25-32 | MW25-32 | MW25-34 | MW25-34 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Feature | Retort house | Retort house | Retort house | Exhauster | Exhauster | Exhauster | Meter house | Meter house | Meter house | Benzol washer | Benzol washer | Benzol washer | Tank | Tank |
| Monitoring Round No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 |
| Date Sampled | 18/03/2025 | 09/04/2025 | 30/04/2025 | 18/03/2025 | 09/04/2025 | 30/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 30/04/2025 | 19/03/2025 | 10/04/2025 |
| Stratum | Boulder Clay/Wolston Sand & Gravel | | | Wolston Sand & Gravel | | | Boulder Clay/Wolston Sand & Gravel | | | Boulder Clay/Wolston Sand & Gravel | | | Wolston Sand & Gravel | |
| pH | 7.90 | 7.70 | 7.70 | 7.30 | 7.20 | 7.20 | 7.30 | 7.70 | 7.30 | 8.10 | 8.10 | 8.00 | 7.40 | 7.30 |
| Conductivity | 5400.00 | 5100.00 | 4900.00 | 1800.00 | 1800.00 | 1800.00 | 1000.00 | 1000.00 | 1100.00 | 2800.00 | 3600.00 | 2900.00 | 1200.00 | 1400.00 |
| Cyanide (Total) (as CN) | 0.24 | 0.23 | 0.26 | 0.17 | 0.19 | 0.20 | 0.040 | 0.040 | 0.050 | 0.050 | 0.050 | 0.060 | 0.060 | 0.030 |
| Complexed cyanide | 0.24 | 0.23 | 0.26 | 0.17 | 0.19 | 0.20 | 0.040 | 0.040 | 0.050 | 0.050 | 0.050 | 0.060 | 0.060 | 0.030 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | 9.30 | 1.60 | 1.90 | 0.30 | 0.30 | 0.30 | <0.2 | <0.2 | <0.2 | 0.20 | <0.2 | 0.20 | <0.2 | <0.2 |
| Sulphate | 713.00 | 601.00 | 580.00 | 306.00 | 380.00 | 328.00 | 207.00 | 219.00 | 204.00 | 1560.00 | 1870.00 | 1240.00 | 147.00 | 210.00 |
| Sulphur (Elemental) | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | |
| Sulphide | 0.0060 | 0.013 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 700.00 | 680.00 | 580.00 | 170.00 | 160.00 | 150.00 | 59.00 | 68.00 | 80.00 | 84.00 | 90.00 | 100.00 | 140.00 | 220.00 |
| Ammonium as NH4 | 640.00 | 680.00 | 630.00 | 76.00 | 68.00 | 68.00 | 0.94 | 1.20 | 1.60 | 240.00 | 360.00 | 260.00 | 3.60 | 0.94 |
| Dissolved Organic Carbon (DOC) | 207.00 | 235.00 | 195.00 | 15.80 | 15.90 | 18.60 | 4.09 | 2.96 | 3.54 | 7.09 | 7.37 | 6.62 | 7.06 | 4.00 |
| Total Suspended Solids | 100.00 | 850.00 | 58.00 | 150.00 | 63.00 | 150.00 | 460.00 | 31.00 | 72.00 | 540.00 | 520.00 | 180.00 | 46.00 | 24.00 |
| Total Organic Carbon (TOC) | 253.00 | 264.00 | 212.00 | 19.10 | 16.50 | 20.90 | 4.20 | 2.99 | 3.58 | 7.46 | 7.50 | 6.66 | 7.12 | 4.00 |
| Alkalinity as CaCO3 | 1000.00 | 1200.00 | 1000.00 | 560.00 | 480.00 | 550.00 | 340.00 | 320.00 | 340.00 | 190.00 | 200.00 | 240.00 | 350.00 | 270.00 |
| Hardness - Total | 245.00 | 244.00 | 231.00 | 496.00 | 574.00 | 527.00 | 496.00 | 482.00 | 530.00 | 569.00 | 700.00 | 532.00 | 347.00 | 410.00 |
| Catechol | 10.00 | 14.00 | 7.40 | 0.15 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | 49.00 | 50.00 | 48.00 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | 10.00 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Total Xylenols & Ethylphenols | 60.00 | 66.00 | 59.00 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.020 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | 9.50 | 56.00 | 14.00 | 0.31 | <0.0005 | <0.0005 | <0.0005 | 0.011 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | <0.0005 | 12.00 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | 130.00 | 190.00 | 150.00 | 0.46 | <0.0035 | <0.0035 | <0.0035 | 0.030 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | **4.10** | **2.70** | **3.60** | 0.060 | 0.20 | **0.23** | <0.00001 | <0.00001 | 0.0030 | 0.00028 | <0.00001 | 0.0022 | 0.14 | 0.0091 |
| Acenaphthylene | 0.043 | 0.035 | 0.025 | 0.0013 | 0.0012 | <0.00001 | <0.00001 | <0.00001 | 0.000080 | <0.00001 | <0.00001 | 0.000050 | 0.020 | 0.0065 |
| Acenaphthene | 0.013 | 0.013 | 0.0076 | 0.0083 | 0.0077 | 0.0060 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0068 | 0.0054 |
| Fluorene | 0.0070 | 0.0080 | 0.0038 | 0.0015 | 0.0017 | 0.0013 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0048 | 0.0033 |
| Phenanthrene | 0.0056 | 0.0087 | 0.0028 | 0.00087 | 0.0014 | 0.0011 | <0.00001 | <0.00001 | <0.00001 | 0.000030 | <0.00001 | <0.00001 | 0.0033 | 0.0019 |
| Anthracene | 0.0012 | 0.0021 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00084 | 0.00036 |
| Fluoranthene | 0.0018 | 0.0043 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00041 | <0.00001 |
| Pyrene | 0.0013 | 0.0031 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00045 | 0.00015 |
| Benzo[a]anthracene | 0.00078 | 0.0011 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | 0.00041 | 0.00097 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | <0.00040 | 0.0010 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | <0.00040 | 0.00034 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | <0.00040 | 0.00085 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | <0.00040 | 0.00049 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | <0.00040 | <0.0001 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00040 | 0.00053 | <0.00001 | <0.00010 | <0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| PAH 16 Total | 4.10 | 2.80 | 3.60 | 0.072 | 0.21 | 0.24 | <0.00016 | <0.00016 | 0.0031 | 0.00031 | <0.00016 | 0.0022 | 0.17 | 0.027 |
| Arsenic | 0.012 | 0.0084 | 0.0089 | 0.0012 | 0.00092 | 0.0012 | 0.00078 | 0.00073 | 0.00044 | 0.0013 | 0.0021 | 0.0013 | 0.013 | 0.0037 |
| Cadmium | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Chromium (VI) | U/S $^{*U/S j}$ | U/S $^{*U/S g}$ | U/S $^{*U/S}$ | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.0064 | 0.0059 | 0.0062 | 0.00033 | <0.0002 | <0.0002 | 0.00038 | 0.00049 | <0.0002 | <0.0002 | 0.00049 | <0.0002 | <0.0002 | <0.0002 |
| Copper | 0.0050 | 0.0025 | 0.0012 | 0.0010 | 0.0029 | 0.00090 | 0.0013 | 0.0027 | 0.0031 | 0.0025 | 0.0029 | 0.0028 | <0.0005 | 0.0022 |
| Calcium | 55.00 | 57.00 | 56.00 | 150.00 | 170.00 | 160.00 | 130.00 | 130.00 | 140.00 | 150.00 | 180.00 | 130.00 | 110.00 | 120.00 |
| Iron | 2.40 | 1.80 | 1.30 | 0.14 | 0.18 | 0.14 | 0.032 | 0.020 | 0.031 | 0.047 | 0.027 | 0.032 | 0.11 | 0.060 |
| Lead | 0.00030 | 0.00030 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | 0.000050 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0037 | 0.0041 | 0.0020 | 0.0011 | 0.00060 | 0.00090 | 0.0019 | 0.0017 | 0.0013 | 0.0014 | 0.0019 | 0.0011 | 0.0027 | 0.0015 |
| Selenium | 0.0065 | 0.0047 | 0.0040 | 0.0015 | 0.00090 | 0.00090 | <0.0006 | <0.0006 | <0.0006 | 0.0012 | 0.00070 | 0.00070 | 0.0012 | 0.00060 |
| Zinc | 0.019 | 0.00080 | 0.0013 | 0.0026 | 0.0024 | 0.0018 | 0.0031 | 0.0025 | 0.0025 | 0.0011 | 0.0021 | 0.0011 | 0.0030 | 0.00080 |
| Benzene | **3.40** | **1.40** | **3.70** | **1.80** | **0.44** | **1.20** | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.10 | <0.001 |
| Toluene | 1.50 | 0.63 | 1.80 | 0.036 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.098 | <0.001 |
| Ethylbenzene | 0.15 | 0.064 | 0.23 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.014 | <0.001 |
| Xylene (p & m-Xylene) | 0.76 | 0.28 | 1.0 | 0.041 | <0.001 | 0.013 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.015 | <0.001 |
| Xylene (o-Xylene) | 0.49 | 0.20 | 0.65 | 0.070 | 0.018 | 0.046 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.016 | 0.0010 |
| Methyl tert-butyl ether | <0.003 | <0.003 | <0.003 | <0.003 | | | <0.003 | | | <0.003 | | | <0.003 | |
| TPH (C10 - C40) | 166.00 | 137.00 | | 10.40 | 8.67 | 5.48 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.81 | 0.69 |
| TPH Total C5 - C35 | 172.00 | 140.00 | 203.00 | 12.40 | 9.13 | 6.79 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.05 | 0.69 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <<0.40 & | **2.08** | **3.11** | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <<0.40 & | 0.54 | 0.62 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <<0.40 & | <0.2 | 0.070 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <<0.40 & | <<0.20 & | 0.13 | <0.1 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | | 2.62 | 3.92 | | <0.01 | <0.01 | | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | 2.62 | 3.92 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | 3.40 | 1.40 | 3.70 | 1.80 | 0.44 | 1.20 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.11 | <0.001 |
| Aromatic C7 - C8 | 1.50 | 0.62 | 1.80 | 0.037 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.097 | <0.001 |
| Aromatic C8 – C10 | 1.40 | 0.55 | **2.00** | 0.11 | 0.024 | 0.061 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.034 | 0.0024 |
| Aromatic C10 – C12 | **139.00** | **110.00** | **156.00** | 4.94 | 4.13 | 2.85 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.41 | 0.38 |
| Aromatic C12 – C16 | 23.90 | 22.80 | 33.70 | 4.78 | 3.71 | 2.63 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | 0.25 |
| Aromatic C16 – C21 | 0.74 | 0.85 | 1.25 | 0.19 | 0.21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.010 | 0.050 |
| Aromatic C21 – C35 | 2.36 | 1.35 | 1.33 | 0.54 | 0.62 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | | 135.00 | 192.00 | | 8.67 | 5.48 | | <0.01 | <0.01 | | <0.01 | <0.01 | 1.81 | 0.69 |
| Total Aromatic C5 - C35 | 172.00 | 137.00 | 199.00 | 12.40 | 9.13 | 6.79 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.05 | 0.69 |
| 4-Chlorophenol | | | | | | | | | | | | | | |
| 3,5-Dimethylphenol | | | | | | | | | | | | | | |
| Chloromethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Chloroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Bromomethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Vinyl chloride (Chloroethene) | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Trichlorofluoromethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,1-Dichloroethene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Trans 1,2-dichloroethylene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,1-Dichloroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 2,2-Dichloropropane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Trichloromethane (Chloroform) | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,2-Dichloroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,1-Dichloropropene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Cis-1,2-dichloroethene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Carbontetrachloride | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,2-Dichloropropane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Trichloroethene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Dibromomethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Bromodichloromethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Cis-1,3-dichloropropene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Trans-1,3-dichloropropene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,1,2 Trichloroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,3-Dichloropropane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Dibromochloromethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Tetrachloroethene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,2-Dibromoethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| ChloroBenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Styrene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Bromoform | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| Bromobenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| n-Propylbenzene | <0.003 | <0.003 | 0.012 | | | | | | | | | | | |
| 2-Chlorotoluene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 4-Chlorotoluene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.003 | 0.021 | 0.066 | | | | | | | | | | | |
| tert-Butylbenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | **0.18** | **0.060** | **0.20** | | | | | | | | | | | |
| sec-Butylbenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,3-dichlorobenzene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| p-Isopropyltoluene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,4-dichlorobenzene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 1,2-dichlorobenzene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Butylbenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Hexachlorobutadiene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | <0.003 | <0.003 | <0.003 | | | | | | | | | | | |
| 3+4-Methylphenol | 13.00 | 11.00 | 11.00 | | | | | | | | | | | |
| Aniline | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 2-chlorophenol | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 2-Methylphenol | 18.00 | 18.00 | 23.00 | | | | | | | | | | | |
| Hexachloroethane | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Nitrobenzene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 4-Methylphenol | 13.00 | 11.00 | 11.00 | | | | | | | | | | | |
| Isophorone | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 2-Nitrophenol | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 2,4-Dimethylphenol | 17.00 | 18.00 | 22.00 | | | | | | | | | | | |
| Bis(2-chloroethoxy)methane | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 2,4-Dichlorophenol | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 4-Chloroaniline | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 2-Methylnaphthalene | 0.12 | 0.049 | 0.061 | | | | | | | | | | | |
| 2-Chloronaphthalene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Dimethylphthalate | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 2,6-Dinitrotoluene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 2,4-Dinitrotoluene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Dibenzofuran | 0.0079 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Diethyl phthalate | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| 4-Nitroaniline | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Azobenzene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Bromophenyl phenyl ether | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Hexachlorobenzene | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Carbazole | 0.0054 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Dibutyl phthalate | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Anthraquinone | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| Butyl benzyl phthalate | <0.00005 | <0.00005 | <0.00005 | | | | | | | | | | | |
| PCB Congener 28 | | | | | | | | | | | | | | |
| PCB Congener 52 | | | | | | | | | | | | | | |
| PCB Congener 101 | | | | | | | | | | | | | | |
| PCB Congener 118 | | | | | | | | | | | | | | |
| PCB Congener 138 | | | | | | | | | | | | | | |
| PCB Congener 153 | | | | | | | | | | | | | | |
| PCB Congener 180 | | | | | | | | | | | | | | |
| Total ICES-7 PCBs | | | | | | | | | | | | | | |

| Sample Location | MW25-34 | CBH129 | CBH129 | CBH129 | CBH124 | CBH124 | CBH124 | CBH126 | CBH126 | CBH126 | MW25-15C | MW25-15C | MW25-15C | CBH102 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Feature | Tank | Managers House | Managers House | Managers House | Former feature | Former feature | Former feature | Former feature | Former feature | Former feature | Former feature | Former feature | Former feature | - |
| Monitoring Round No. | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 |
| Date Sampled | 30/04/2025 | 19/03/2025 | 10/04/2025 | 30/04/2025 | 19/03/2025 | 10/04/2025 | 30/04/2025 | 19/03/2025 | 10/04/2025 | 30/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 17/03/2025 |
| Stratum | | Wolston Sand & Gravel | | | Wolston Sand & Gravel | | | Wolston Sand & Gravel | | | Boulder Clay/Wolston Sand & Gravel | | | Wolston Sand and Gravel |
| pH | 7.40 | 7.10 | 7.40 | 7.20 | 7.00 | 7.00 | 6.90 | 7.10 | 7.10 | 7.00 | 7.30 | 7.30 | 7.20 | 7.00 |
| Conductivity | 1500.00 | 1400.00 | 1500.00 | 1600.00 | 2400.00 | 2400.00 | 2500.00 | 1600.00 | 1700.00 | 1800.00 | 2700.00 | 2600.00 | 2600.00 | 2100.00 |
| Cyanide (Total) (as CN) | 0.040 | 0.010 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.10 | 0.10 | 0.12 | 1.10 | 0.73 | 0.58 | 0.45 |
| Complexed cyanide | 0.040 | 0.010 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.10 | 0.10 | 0.12 | 1.10 | 0.73 | 0.58 | 0.45 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | <0.2 | <0.2 | <0.2 | I/S $^{*I/S}$ | <0.2 | <0.2 | <0.2 | <0.2 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | <0.2 |
| Sulphate | 203.00 | 448.00 | 523.00 | 528.00 | 699.00 | 693.00 | 684.00 | 29.90 | 33.40 | 202.00 | 874.00 | 667.00 | 477.00 | 547.00 |
| Sulphur (Elemental) | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | 0.040 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 250.00 | 52.00 | 56.00 | I/S $^{*I/S}$ | 330.00 | 340.00 | 340.00 | 180.00 | 180.00 | 150.00 | 460.00 | 490.00 | 500.00 | 340.00 |
| Ammonium as NH4 | 0.55 | 0.015 | <0.015 | I/S $^{*I/S}$ | 42.00 | 28.00 | 21.00 | 30.00 | 32.00 | 32.00 | 7.40 | 7.40 | 11.00 | 1.10 |
| Dissolved Organic Carbon (DOC) | 3.87 | 3.55 | 9.43 | I/S $^{*I/S}$ | 4.95 | 3.25 | 3.11 | 22.20 | 24.70 | 26.80 | 5.12 | 4.71 | 4.20 | 6.62 |
| Total Suspended Solids | 42.00 | 160.00 | 110000.00 | I/S $^{*I/S}$ | 12.00 | 18.00 | 32.00 | 34.00 | 19.00 | 25.00 | 450.00 | 85.00 | 64.00 | 82.00 |
| Total Organic Carbon (TOC) | 3.92 | 3.78 | 10.30 | I/S $^{*I/S}$ | 5.09 | 3.47 | 3.19 | 24.20 | 25.60 | 29.40 | 5.23 | 4.88 | 4.28 | 6.94 |
| Alkalinity as CaCO3 | 260.00 | 380.00 | 340.00 | I/S $^{*I/S}$ | 340.00 | 310.00 | 320.00 | 650.00 | 760.00 | 790.00 | 280.00 | 310.00 | 300.00 | 290.00 |
| Hardness - Total | 391.00 | 674.00 | 850.00 | 985.00 | 1190.00 | 1240.00 | 1430.00 | 673.00 | 629.00 | 809.00 | 978.00 | 667.00 | 626.00 | 629.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.095 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.29 | 0.34 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.48 | <0.0005 | <0.0005 | 0.49 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 6.40 | 2.90 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.11 | <0.0005 | <0.0005 | 0.21 | 0.33 | <0.0005 | 0.11 | 0.67 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | <0.0035 | <0.0035 | <0.0035 | <0.0035 | 0.11 | <0.0035 | <0.0035 | 0.49 | 7.70 | 2.90 | 0.11 | 1.20 | <0.0035 | <0.0035 |
| Naphthalene | <0.00001 | <0.00001 | 0.0057 | 0.0025 | <0.00001 | 0.0034 | <0.00001 | <0.00001 | **1.30** | 0.18 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthylene | 0.00012 | <0.00001 | 0.0086 | 0.0013 | <0.00001 | 0.00014 | <0.00001 | 0.025 | 0.035 | 0.030 | <0.00001 | <0.00001 | <0.00001 | 0.000080 |
| Acenaphthene | 0.00062 | 0.00012 | 0.00048 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.013 | 0.014 | 0.011 | <0.00001 | <0.00001 | <0.00001 | 0.00010 |
| Fluorene | 0.00082 | <0.00001 | 0.0022 | 0.00036 | <0.00001 | <0.00001 | <0.00001 | 0.0027 | 0.0028 | 0.0029 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | 0.00016 | <0.00001 | 0.0068 | 0.0014 | <0.00001 | 0.00013 | <0.00001 | 0.00071 | 0.0011 | 0.0010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | <0.00001 | <0.00001 | 0.0035 | 0.00068 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00015 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | 0.000090 | <0.00001 | 0.012 | 0.0020 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000070 |
| Pyrene | 0.000090 | <0.00001 | 0.012 | 0.0022 | <0.00001 | <0.00001 | <0.00001 | 0.00019 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000080 |
| Benzo[a]anthracene | <0.00001 | <0.00001 | 0.0096 | 0.0014 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | <0.00001 | <0.00001 | 0.0095 | 0.0015 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | 0.013 | 0.0022 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | 0.0062 | 0.00079 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | <0.00001 | <0.00001 | 0.015 | 0.0022 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | 0.0061 | 0.0010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | 0.0066 | 0.0012 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| PAH 16 Total | 0.0019 | <0.00016 | 0.12 | 0.021 | <0.00016 | 0.0037 | <0.00016 | 0.042 | 1.40 | 0.23 | <0.00016 | <0.00016 | <0.00016 | 0.00033 |
| Arsenic | 0.0012 | 0.00079 | 0.00081 | 0.00098 | 0.0011 | 0.00090 | 0.00066 | 0.014 | 0.0060 | 0.0046 | 0.00074 | 0.00074 | 0.00044 | 0.00095 |
| Cadmium | <0.00002 | 0.000060 | 0.00015 | 0.00010 | 0.00073 | 0.00049 | 0.00053 | <0.00002 | <0.00002 | <0.00002 | 0.00018 | 0.00013 | 0.00010 | 0.000040 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | <0.0002 | 0.00024 | <0.0002 | <0.0002 | <0.0002 | 0.00051 | <0.0002 | 0.00026 | <0.0002 | <0.0002 | 0.00059 | <0.0002 | <0.0002 | 0.00049 |
| Copper | 0.0024 | 0.0027 | 0.0031 | 0.0015 | 0.0029 | 0.0050 | 0.0033 | 0.00050 | 0.0016 | 0.0013 | 0.0035 | 0.0032 | 0.0030 | 0.0030 |
| Calcium | 120.00 | 180.00 | 210.00 | 260.00 | 320.00 | 320.00 | 430.00 | 220.00 | 190.00 | 280.00 | 340.00 | 230.00 | 220.00 | 220.00 |
| Iron | 0.081 | 0.014 | 0.11 | 0.047 | 0.0050 | 0.0070 | <0.004 | 2.90 | 1.10 | 0.34 | 0.50 | 0.32 | 0.27 | 0.21 |
| Lead | <0.0002 | <0.0002 | 0.00020 | 0.00030 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00040 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | 0.000060 | <0.00005 | <0.00005 |
| Nickel | 0.0037 | 0.0056 | 0.0071 | 0.0071 | 0.0057 | 0.0050 | 0.0058 | 0.0027 | 0.0027 | 0.0028 | 0.0034 | 0.0027 | 0.0024 | 0.0027 |
| Selenium | 0.0013 | <0.0006 | 0.0013 | 0.00060 | 0.0063 | 0.0038 | 0.00070 | 0.0023 | 0.0019 | 0.0021 | 0.0051 | 0.0027 | 0.0013 | 0.00070 |
| Zinc | 0.0012 | 0.0028 | 0.0023 | 0.0023 | 0.024 | 0.025 | 0.014 | 0.0012 | 0.0019 | 0.0020 | 0.0080 | 0.0031 | 0.0029 | 0.018 |
| Benzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | **1.90** | **1.10** | **1.60** | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.024 | 0.015 | 0.023 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.049 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.077 | 0.078 | 0.29 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.080 | 0.075 | 0.23 | <0.001 | <0.001 | <0.001 | <0.001 |
| Methyl tert-butyl ether | | <0.003 | | | <0.003 | | | <0.003 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| TPH (C10 - C40) | | <0.01 | 2.30 | | 0.10 | 0.060 | | 14.40 | 15.20 | | <0.01 | <0.01 | <0.01 | 0.55 |
| TPH Total C5 - C35 | 0.27 | <0.01 | 2.30 | 0.63 | 0.10 | 0.060 | <0.01 | 16.40 | 16.60 | 10.90 | <0.01 | <0.01 | <0.01 | 0.43 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <0.01 | **0.039** | <0.01 | <0.01 | <0.01 | <0.01 | **0.070** | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <0.01 | <0.01 | 0.20 | 0.020 | <0.01 | <0.01 | <0.01 | 0.050 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <0.01 | <0.01 | 0.32 | 0.030 | <0.01 | <0.01 | <0.01 | 0.020 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <0.01 | <0.01 | 0.70 | 0.050 | <0.01 | <0.01 | <0.01 | 0.020 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | 1.30 | 0.10 | <0.01 | <0.01 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | 1.30 | 0.10 | <0.01 | <0.01 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 1.90 | 1.10 | 1.50 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.025 | 0.023 | 0.027 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.16 | 0.24 | 0.53 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | 0.10 | <0.01 | 0.015 | 0.010 | 0.050 | 0.030 | <0.01 | **9.63** | **11.50** | 6.54 | <0.01 | <0.01 | <0.01 | 0.050 |
| Aromatic C12 – C16 | 0.14 | <0.01 | 0.12 | 0.050 | 0.040 | 0.020 | <0.01 | 3.59 | 2.77 | 1.55 | <0.01 | <0.01 | <0.01 | 0.050 |
| Aromatic C16 – C21 | 0.030 | <0.01 | 0.16 | 0.040 | <0.01 | <0.01 | <0.01 | 0.61 | 0.52 | 0.29 | <0.01 | <0.01 | <0.01 | 0.070 |
| Aromatic C21 – C35 | <0.01 | <0.01 | 0.44 | 0.43 | <0.01 | <0.01 | <0.01 | 0.37 | 0.41 | 0.38 | <0.01 | <0.01 | <0.01 | 0.26 |
| Total Aromatic C10 - C35 | 0.27 | <0.01 | 0.73 | 0.53 | 0.10 | 0.060 | <0.01 | 14.20 | 15.20 | 8.77 | <0.01 | <0.01 | <0.01 | 0.43 |
| Total Aromatic C5 - C35 | 0.27 | <0.01 | 0.73 | 0.53 | 0.10 | 0.060 | <0.01 | 16.30 | 16.60 | 10.90 | <0.01 | <0.01 | <0.01 | 0.43 |
| 4-Chlorophenol | | | | | | | | | | | | | | |
| 3,5-Dimethylphenol | | | | | | | | | | | | | | |
| Chloromethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Chloroethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Bromomethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Vinyl chloride (Chloroethene) | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Trichlorofluoromethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,1-Dichloroethene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Trans 1,2-dichloroethylene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,1-Dichloroethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 2,2-Dichloropropane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Trichloromethane (Chloroform) | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,1,1-Trichloroethane (TCA) | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,2-Dichloroethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,1-Dichloropropene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Cis-1,2-dichloroethene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Carbontetrachloride | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,2-Dichloropropane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Trichloroethene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Dibromomethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Bromodichloromethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Cis-1,3-dichloropropene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Trans-1,3-dichloropropene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,1,2 Trichloroethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,3-Dichloropropane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Dibromochloromethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Tetrachloroethene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,2-Dibromoethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| ChloroBenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Styrene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Bromoform | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,1,2,2-Tetrachloroethane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Bromobenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| n-Propylbenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 2-Chlorotoluene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 4-Chlorotoluene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,3,5-Trimethylbenzene | | | | | | | | <0.003 | 0.014 | 0.060 | | | | |
| tert-Butylbenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,2,4-Trimethylbenzene | | | | | | | | **0.14** | **0.092** | **0.29** | | | | |
| sec-Butylbenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,3-dichlorobenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| p-Isopropyltoluene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,4-dichlorobenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,2-dichlorobenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Butylbenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,2-Dibromo-3-chloropropane | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,2,4-trichlorobenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| Hexachlorobutadiene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 1,2,3-trichlorobenzene | | | | | | | | <0.003 | <0.003 | <0.003 | | | | |
| 3+4-Methylphenol | | | | | | | | | | | | | | |
| Aniline | | | | | | | | | | | | | | |
| 2-chlorophenol | | | | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | | | | | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | | | | | | | | | | | | | | |
| 2-Methylphenol | | | | | | | | | | | | | | |
| Hexachloroethane | | | | | | | | | | | | | | |
| Nitrobenzene | | | | | | | | | | | | | | |
| 4-Methylphenol | | | | | | | | | | | | | | |
| Isophorone | | | | | | | | | | | | | | |
| 2-Nitrophenol | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | | | | | | | | | | | | | | |
| Bis(2-chloroethoxy)methane | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | | | | | | | | | | | | | | |
| 4-Chloroaniline | | | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | | | | | | | | | | | | | | |
| Dimethylphthalate | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | | | | | | | | | | | | | | |
| Dibenzofuran | | | | | | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | | | | | | | | | | | | | | |
| Diethyl phthalate | | | | | | | | | | | | | | |
| 4-Nitroaniline | | | | | | | | | | | | | | |
| Azobenzene | | | | | | | | | | | | | | |
| Bromophenyl phenyl ether | | | | | | | | | | | | | | |
| Hexachlorobenzene | | | | | | | | | | | | | | |
| Carbazole | | | | | | | | | | | | | | |
| Dibutyl phthalate | | | | | | | | | | | | | | |
| Anthraquinone | | | | | | | | | | | | | | |
| Butyl benzyl phthalate | | | | | | | | | | | | | | |
| PCB Congener 28 | | | I/S $^{*I/S}$ | <0.00002 | | | | | | | | | | |
| PCB Congener 52 | | | I/S $^{*I/S}$ | <0.00002 | | | | | | | | | | |
| PCB Congener 101 | | | I/S $^{*I/S}$ | <0.00002 | | | | | | | | | | |
| PCB Congener 118 | | | I/S $^{*I/S}$ | <0.00002 | | | | | | | | | | |
| PCB Congener 138 | | | I/S $^{*I/S}$ | <0.00002 | | | | | | | | | | |
| PCB Congener 153 | | | I/S $^{*I/S}$ | <0.00002 | | | | | | | | | | |
| PCB Congener 180 | | | I/S $^{*I/S}$ | <0.00002 | | | | | | | | | | |
| Total ICES-7 PCBs | | | I/S | <0.00014 | | | | | | | | | | |

| Sample Location | CBH102 | CBH104 | CBH104 | CBH104 | CBH108 | CBH108 | CBH108 | CBH108-DUP | CBH108-DUP | CBH112 | CBH112 | CBH112 | CBH130 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Feature | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Monitoring Round No. | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 2 | 3 | 1 |
| Date Sampled | 08/04/2025 | 17/03/2025 | 08/04/2025 | 28/04/2025 | 17/03/2025 | 08/04/2025 | 28/04/2025 | 17/03/2025 | 08/04/2025 | 17/03/2025 | 08/04/2025 | 28/04/2025 | 19/03/2025 |
| Stratum | | Made Ground | | | Made Ground / Wolston Sand and Gravel | | | | | Wolston Sand & Gravel/Wolston Clay | | | Wolston Sa |
| pH | 7.00 | 7.20 | 7.10 | 7.00 | 7.10 | 7.00 | 7.10 | 7.10 | 7.10 | 7.10 | 6.90 | 6.80 | 7.00 |
| Conductivity | 1600.00 | 3800.00 | 3600.00 | 3800.00 | 5600.00 | 5300.00 | 5000.00 | 5600.00 | 5400.00 | 3000.00 | 3000.00 | 3200.00 | 1200.00 |
| Cyanide (Total) (as CN) | 0.27 | 0.23 | 0.21 | 0.22 | 1.20 | 1.10 | 1.20 | 1.20 | 1.20 | 0.48 | 0.44 | 0.49 | <0.01 |
| Complexed cyanide | 0.27 | 0.23 | 0.21 | 0.22 | 1.20 | 1.10 | 1.20 | 1.20 | 1.20 | 0.48 | 0.44 | 0.49 | <0.01 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | 0.30 | 0.20 | 0.30 | 0.30 | 0.50 | 0.40 | 0.50 | 0.40 | 0.50 | 0.20 | <0.2 | 0.20 | <0.2 |
| Sulphate | 237.00 | 690.00 | 594.00 | 605.00 | 1220.00 | 1070.00 | 914.00 | 1330.00 | 1140.00 | 461.00 | 424.00 | 436.00 | 199.00 |
| Sulphur (Elemental) | | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | | <0.02 | <0.02 |
| Sulphide | 0.057 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 250.00 | 930.00 | 900.00 | 950.00 | 1700.00 | 1500.00 | 1200.00 | 1700.00 | 1500.00 | 690.00 | 730.00 | 680.00 | 73.00 |
| Ammonium as NH4 | 3.90 | 0.11 | 0.19 | 0.68 | 18.00 | 23.00 | 7.60 | 18.00 | 23.00 | 11.00 | 18.00 | 17.00 | 0.057 |
| Dissolved Organic Carbon (DOC) | 40.00 | 6.65 | 6.35 | 5.70 | 10.30 | 9.82 | 10.00 | 10.30 | 9.56 | 7.60 | 6.58 | 6.86 | 4.76 |
| Total Suspended Solids | 150.00 | 69.00 | 360.00 | 1400.00 | 26.00 | 40.00 | 5.00 | 59.00 | 26.00 | 16.00 | 16.00 | <2 | 26.00 |
| Total Organic Carbon (TOC) | 44.20 | 6.95 | 7.15 | 6.44 | 10.60 | 9.87 | 11.50 | 10.50 | 9.64 | 7.72 | 6.84 | 6.93 | 4.86 |
| Alkalinity as CaCO3 | 370.00 | 510.00 | 480.00 | 490.00 | 530.00 | 540.00 | 480.00 | 540.00 | 510.00 | 430.00 | 440.00 | 460.00 | 400.00 |
| Hardness - Total | 432.00 | 1090.00 | 1300.00 | 1180.00 | 1460.00 | 1810.00 | 1270.00 | 1450.00 | 1320.00 | 561.00 | 1000.00 | 704.00 | 601.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.35 | <0.0005 | <0.0005 | 0.36 | <0.0005 | 0.29 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | <0.0035 | <0.0035 | <0.0035 | <0.0035 | 0.35 | <0.0035 | <0.0035 | 0.36 | <0.0035 | 0.29 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthylene | <0.00001 | <0.00001 | <0.00001 | 0.00011 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | <0.00001 | <0.00001 | <0.00001 | 0.000030 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | <0.00001 | <0.00001 | <0.00001 | 0.00013 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | <0.00001 | <0.00001 | <0.00001 | 0.00054 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | <0.00001 | <0.00001 | <0.00001 | 0.00055 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | <0.00001 | <0.00001 | <0.00001 | 0.00028 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | <0.00001 | <0.00001 | <0.00001 | 0.00028 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | <0.00001 | 0.00039 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | <0.00001 | 0.00020 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | <0.00001 | <0.00001 | <0.00001 | 0.00037 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | <0.00001 | 0.00021 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | <0.00001 | 0.00023 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| PAH 16 Total | <0.00016 | <0.00016 | <0.00016 | 0.0033 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 |
| Arsenic | 0.0060 | 0.00063 | 0.00079 | 0.0027 | 0.00072 | 0.00071 | 0.00085 | 0.00070 | 0.00068 | 0.00035 | 0.00036 | 0.00036 | 0.00078 |
| Cadmium | 0.000030 | 0.00028 | 0.00050 | 0.00030 | 0.00021 | 0.00026 | 0.00022 | 0.00023 | 0.00025 | 0.000080 | 0.000080 | 0.000090 | 0.000040 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.0018 | 0.00050 | <0.0002 | 0.0018 | 0.00048 | 0.00063 | 0.00047 | 0.00068 | 0.0010 | 0.00044 | 0.00052 | <0.0002 | <0.0002 |
| Copper | 0.0046 | 0.0060 | 0.0060 | 0.0071 | 0.0057 | 0.0064 | 0.0094 | 0.017 | 0.0060 | 0.0055 | 0.010 | 0.0048 | 0.0021 |
| Calcium | 150.00 | 370.00 | 420.00 | 390.00 | 470.00 | 590.00 | 420.00 | 480.00 | 410.00 | 170.00 | 310.00 | 210.00 | 190.00 |
| Iron | 0.99 | 0.11 | 0.32 | 0.26 | 0.46 | 0.45 | 0.46 | 0.45 | 0.45 | 0.22 | 0.17 | 0.20 | 0.11 |
| Lead | 0.00070 | <0.0002 | <0.0002 | 0.0052 | <0.0002 | <0.0002 | <0.0002 | 0.00030 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0047 | 0.0068 | 0.0082 | 0.013 | 0.0042 | 0.0048 | 0.0053 | 0.0044 | 0.0046 | 0.0036 | 0.0039 | 0.0043 | 0.0023 |
| Selenium | 0.00080 | 0.0013 | 0.0010 | 0.0017 | 0.0016 | 0.0010 | 0.0015 | 0.0017 | 0.0013 | 0.0043 | 0.0033 | 0.0033 | <0.0006 |
| Zinc | 0.017 | 0.050 | 0.045 | 0.027 | 0.014 | 0.010 | 0.010 | 0.013 | 0.0083 | 0.0058 | 0.0025 | 0.0042 | 0.0020 |
| Benzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Methyl tert-butyl ether | | <0.003 | | | <0.003 | | | <0.003 | | <0.003 | | | <0.003 |
| TPH (C10 - C40) | <0.01 | <0.01 | <0.01 | <0.01 | 0.34 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | 0.31 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | 0.040 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | <0.01 | <0.01 | <0.01 | <0.01 | 0.050 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | <0.01 | <0.01 | <0.01 | <0.01 | 0.20 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | 0.31 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | 0.31 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 4-Chlorophenol | | | | | | | | | | | | | |
| 3,5-Dimethylphenol | | | | | | | | | | | | | |
| Chloromethane | | | | | | | | | | | | | |
| Chloroethane | | | | | | | | | | | | | |
| Bromomethane | | | | | | | | | | | | | |
| Vinyl chloride (Chloroethene) | | | | | | | | | | | | | |
| Trichlorofluoromethane | | | | | | | | | | | | | |
| 1,1-Dichloroethene | | | | | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | | | | | | | | | | | |
| Trans 1,2-dichloroethylene | | | | | | | | | | | | | |
| 1,1-Dichloroethane | | | | | | | | | | | | | |
| 2,2-Dichloropropane | | | | | | | | | | | | | |
| Trichloromethane (Chloroform) | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | | | | | | | | | | | | | |
| 1,2-Dichloroethane | | | | | | | | | | | | | |
| 1,1-Dichloropropene | | | | | | | | | | | | | |
| Cis-1,2-dichloroethene | | | | | | | | | | | | | |
| Carbontetrachloride | | | | | | | | | | | | | |
| 1,2-Dichloropropane | | | | | | | | | | | | | |
| Trichloroethene | | | | | | | | | | | | | |
| Dibromomethane | | | | | | | | | | | | | |
| Bromodichloromethane | | | | | | | | | | | | | |
| Cis-1,3-dichloropropene | | | | | | | | | | | | | |
| Trans-1,3-dichloropropene | | | | | | | | | | | | | |
| 1,1,2 Trichloroethane | | | | | | | | | | | | | |
| 1,3-Dichloropropane | | | | | | | | | | | | | |
| Dibromochloromethane | | | | | | | | | | | | | |
| Tetrachloroethene | | | | | | | | | | | | | |
| 1,2-Dibromoethane | | | | | | | | | | | | | |
| ChloroBenzene | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | | | | | | | | | | | | | |
| Styrene | | | | | | | | | | | | | |
| Bromoform | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | | | | | | | | | | | |
| Bromobenzene | | | | | | | | | | | | | |
| n-Propylbenzene | | | | | | | | | | | | | |
| 2-Chlorotoluene | | | | | | | | | | | | | |
| 4-Chlorotoluene | | | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | | | | | | | | | | | | | |
| tert-Butylbenzene | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | | | | | | | | | | | | | |
| sec-Butylbenzene | | | | | | | | | | | | | |
| 1,3-dichlorobenzene | | | | | | | | | | | | | |
| p-Isopropyltoluene | | | | | | | | | | | | | |
| 1,4-dichlorobenzene | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | | | | | | | | | | | | | |
| Butylbenzene | | | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | | | | | | | | | | | | | |
| Hexachlorobutadiene | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | | | | | | | | | | | | | |
| 3+4-Methylphenol | | | | | | | | | | | | | |
| Aniline | | | | | | | | | | | | | |
| 2-chlorophenol | | | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | | | | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | | | | | | | | | | | | | |
| 2-Methylphenol | | | | | | | | | | | | | |
| Hexachloroethane | | | | | | | | | | | | | |
| Nitrobenzene | | | | | | | | | | | | | |
| 4-Methylphenol | | | | | | | | | | | | | |
| Isophorone | | | | | | | | | | | | | |
| 2-Nitrophenol | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | | | | | | | | | | | | | |
| Bis(2-chloroethoxy)methane | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | | | | | | | | | | | | | |
| 4-Chloroaniline | | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | | | | | | | | | | | | | |
| 2-Methylnaphthalene | | | | | | | | | | | | | |
| 2-Chloronaphthalene | | | | | | | | | | | | | |
| Dimethylphthalate | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | | | | | | | | | | | | | |
| Dibenzofuran | | | | | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | | | | | | | | | | | | | |
| Diethyl phthalate | | | | | | | | | | | | | |
| 4-Nitroaniline | | | | | | | | | | | | | |
| Azobenzene | | | | | | | | | | | | | |
| Bromophenyl phenyl ether | | | | | | | | | | | | | |
| Hexachlorobenzene | | | | | | | | | | | | | |
| Carbazole | | | | | | | | | | | | | |
| Dibutyl phthalate | | | | | | | | | | | | | |
| Anthraquinone | | | | | | | | | | | | | |
| Butyl benzyl phthalate | | | | | | | | | | | | | |
| PCB Congener 28 | | | | | | | | | | | | | |
| PCB Congener 52 | | | | | | | | | | | | | |
| PCB Congener 101 | | | | | | | | | | | | | |
| PCB Congener 118 | | | | | | | | | | | | | |
| PCB Congener 138 | | | | | | | | | | | | | |
| PCB Congener 153 | | | | | | | | | | | | | |
| PCB Congener 180 | | | | | | | | | | | | | |
| Total ICES-7 PCBs | | | | | | | | | | | | | |

| | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NUMBER OF SAMPLES: | 124 | | | | | | | | | | Sample Location | CBH130 | CBH130 | MW25-05A | MW25-05A | MW25-05A | MW25-08 | MW25-08 | MW25-08 | MW25-19A | MW25-19A | MW25-19A | Trip Blank | Trip Blank | Trip Blank |
| | | | | | | | | | | | Monitoring Round No. | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| | | | | | | EXCEEDS BOTH | | | | | Date Sampled | 10/04/2025 | 30/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 17/03/2025 | 08/04/2025 | 29/04/2025 |
| | | | CRITERIA 1 | CRITERIA 2 | | CRITERIA 1 | CRITERIA 2 | | | | Stratum | nd & Gravel/Wolston Clay | | Wolston Sand & Gravel | | | Made Ground | | | Wolston Sand & Gravel | | | | | |
| **Analytical Parameter** | Units | Limit of detection | Residential | Commercial | No. Analyses | Exceedances | Exceedances | Min | Mean | Max | Max ID | | | | | | | | | | | | | | |
| pH | pH Units | N/A | | | 124.00 | | | 5.9 | 7.6 | 11.50 | MW25-22 | 7.10 | 7.00 | 7.20 | 7.40 | 7.30 | 7.10 | 7.00 | 6.90 | 7.30 | 7.40 | 7.10 | 6.00 | 5.90 | 8.90 |
| Conductivity | µS/cm | 10 | | | 124.00 | | | <10 | <2453 | 7200 | MW25-17 | 1100.00 | 1100.00 | 1500.00 | 1600.00 | 1700.00 | 3300.00 | 3700.00 | 4500.00 | 1800.00 | 1800.00 | 2200.00 | <10 | <10 | <10 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.76 | 8.60 | MW25-10 | <0.01 | <0.01 | 0.030 | 0.15 | 0.23 | 0.79 | 0.65 | 0.40 | <0.01 | <0.01 | 0.010 | <0.01 | <0.01 | <0.01 |
| Complexed cyanide | mg.L$^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.75 | 8.50 | MW25-10 | <0.01 | <0.01 | 0.030 | 0.15 | 0.23 | 0.79 | 0.65 | 0.38 | <0.01 | <0.01 | 0.010 | <0.01 | <0.01 | <0.01 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.01 | 0.07 | MW25-14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.020 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | mg.L$^{-1}$ | 0.2 | | | 124.00 | | | <0.2 | <0.8 | 12 | MW25-14 | <0.2 | 0.30 | <0.2 | <0.2 | 0.30 | 1.20 | 0.50 | 1.40 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Sulphate | mg.L$^{-1}$ | 0.045 | | | 124.00 | | | <0.045 | <532.473 | 2220 | MW25-17 | 186.00 | 220.00 | 169.00 | 212.00 | 298.00 | 1580.00 | 1530.00 | 1520.00 | 114.00 | 117.00 | 115.00 | 1.41 | 0.046 | <0.045 |
| Sulphur (Elemental) | mg.L$^{-1}$ | 0.02 | | | 82.00 | | | <0.02 | <0.02 | 0.04 | CBH102 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 |
| Sulphide | mg.L$^{-1}$ | 0.005 | | | 124.00 | | | <0.005 | <0.172 | 5.90 | MW25-17 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | mg.L$^{-1}$ | 0.15 | | | 124.00 | | | <0.15 | <435.92 | 1900 | MW25-17 | 66.00 | 65.00 | 280.00 | 290.00 | 240.00 | 330.00 | 440.00 | 540.00 | 470.00 | 460.00 | 560.00 | 0.16 | <0.15 | <0.15 |
| Ammonium as NH4 | mg.L$^{-1}$ | 0.015 | | | 124.00 | | | <0.015 | <52.785 | 680 | MW25-27 | 0.057 | 0.070 | 0.59 | 0.32 | <0.015 | 36.00 | 46.00 | 48.00 | 3.30 | 5.00 | 6.30 | <0.015 | <0.015 | <0.015 |
| Dissolved Organic Carbon (DOC) | mg.L$^{-1}$ | 0.1 | | | 124.00 | | | 0.2 | 20.8 | 235 | MW25-27 | 3.83 | 3.88 | 2.74 | 2.48 | 2.98 | 51.40 | 11.50 | 70.60 | 3.24 | 2.53 | 2.92 | 0.88 | 0.20 | 0.53 |
| Total Suspended Solids | mg.L$^{-1}$ | 2 | | | 124.00 | | | <2 | <1165.1 | 110000 | CBH129 | 17.00 | 12.00 | 360.00 | 1300.00 | 570.00 | 340.00 | 470.00 | 400.00 | 16.00 | 40.00 | 33.00 | 5.40 | 10.00 | <2 |
| Total Organic Carbon (TOC) | mg.L$^{-1}$ | 0.1 | | | 124.00 | | | 0.69 | 23.2 | 264 | MW25-27 | 3.99 | 3.90 | 2.80 | 2.88 | 2.99 | 53.10 | 11.50 | 75.00 | 3.26 | 2.63 | 3.03 | 0.90 | 0.69 | 0.82 |
| Alkalinity as CaCO3 | mgCaCO.L | 3 | | | 124 | | | <3 | <370.3 | 1200 | MW25-27 | 430.00 | 400.00 | 360.00 | 360.00 | 350.00 | 450.00 | 550.00 | 900.00 | 310.00 | 260.00 | 290.00 | 13.00 | <3 | <3 |
| Hardness - Total | mgCaCO.L | 1 | | | 124 | | | <1 | <677.5 | 2520 | MW25-08 | 584.00 | 562.00 | 543.00 | 560.00 | 581.00 | 1380.00 | 1630.00 | 2520.00 | 326.00 | 328.00 | 473.00 | 5.20 | <1 | <1 |
| Catechol | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.2716 | 14 | MW25-27 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0174 | 0.48 | MW25-23B | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | mg.L$^{-1}$ | 0.0005 | | | 124 | | | <0.0005 | <1.3606 | 50 | MW25-27 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0545 | 2.20 | MW25-23B | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | mg.L$^{-1}$ | 0.0005 | | | 124 | | | <0.0005 | <0.1441 | 10 | MW25-27 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Total Xylenols & Ethylphenols | mg.L$^{-1}$ | 0.0005 | | | 124 | | | <0.0005 | <2.4394 | 66 | MW25-27 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.9234 | 56 | MW25-27 | <0.0005 | <0.0005 | <0.0005 | 0.014 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.5356 | 16 | MW25-23B | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | mg.L$^{-1}$ | 0.0035 | | | 124.00 | | | <0.0035 | <5.7797 | 190 | MW25-27 | <0.0035 | <0.0035 | <0.0035 | 0.014 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | mg.L$^{-1}$ | 0.00001 | 0.22 | 23 | 124.00 | 23 | 0 | <0.00001 | <0.45201 | 6.80 | MW25-23B | 0.0030 | 0.0024 | <0.00001 | <0.00001 | <0.00001 | 0.00028 | 0.0021 | 0.00048 | 0.00049 | 0.00022 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthylene | mg.L$^{-1}$ | 0.00001 | 220 | 20000 | 124.00 | 0 | 0 | <0.00001 | <0.02513 | 0.57 | MW25-23B | 0.00010 | 0.00018 | <0.00001 | <0.00001 | <0.00001 | 0.00019 | <0.00001 | <0.00001 | 0.000040 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | mg.L$^{-1}$ | 0.00001 | 170 | 15000 | 124.00 | 0 | 0 | <0.00001 | <0.00564 | 0.12 | MW25-16A- | 0.00011 | 0.000040 | <0.00001 | <0.00001 | <0.00001 | 0.00015 | 0.00014 | 0.00012 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | mg.L$^{-1}$ | 0.00001 | 210 | 18000 | 124.00 | 0 | 0 | <0.00001 | <0.01189 | 0.39 | MW25-16A- | 0.000060 | 0.000040 | <0.00001 | <0.00001 | <0.00001 | 0.00019 | 0.00012 | 0.00021 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.023 | 1.10 | MW25-16A- | <0.00001 | <0.00001 | 0.000040 | <0.00001 | <0.00001 | 0.00067 | 0.00018 | 0.00065 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00725 | 0.36 | MW25-16A- | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00027 | <0.00001 | 0.00028 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.01305 | 0.81 | MW25-16A- | <0.00001 | <0.00001 | 0.00010 | 0.000050 | <0.00001 | 0.0011 | 0.00010 | 0.0012 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.0102 | 0.62 | MW25-16A- | <0.00001 | <0.00001 | 0.00011 | 0.000050 | <0.00001 | 0.00098 | <0.00001 | 0.0010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00462 | 0.29 | MW25-16A- | <0.00001 | <0.00001 | 0.000050 | <0.00001 | <0.00001 | 0.00044 | <0.00001 | 0.00040 | <0.00001 | <0.00001 | 0.00012 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.0032 | 0.25 | MW25-16A- | <0.00001 | <0.00001 | 0.000040 | <0.00001 | <0.00001 | 0.00042 | <0.00001 | 0.00043 | <0.00001 | <0.00001 | 0.00016 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00335 | 0.28 | MW25-16A- | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00047 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00159 | 0.13 | MW25-16A- | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00031 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00333 | 0.27 | MW25-16A- | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00045 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00145 | 0.12 | MW25-16A- | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00026 | <0.00001 | 0.00022 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00005 | 0.0032 | MW25-23B | 0.00018 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00001 | | | 124.00 | | | <0.00001 | <0.00156 | 0.13 | MW25-16A- | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00030 | <0.00001 | 0.00029 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| PAH 16 Total | mg.L$^{-1}$ | 0.00016 | | | 124.00 | | | <0.00016 | <0.56847 | 9.80 | MW25-23B | 0.0034 | 0.0026 | 0.00034 | <0.00016 | <0.00016 | 0.0053 | 0.0026 | 0.0065 | 0.00053 | 0.00022 | 0.00028 | <0.00016 | <0.00016 | <0.00016 |
| Arsenic | mg.L$^{-1}$ | 0.00015 | | | 124.00 | | | <0.00015 | <0.00863 | 0.088 | MW25-10 | 0.0010 | 0.00056 | 0.0019 | 0.0012 | 0.00094 | 0.0044 | 0.0032 | 0.0040 | 0.0054 | 0.0038 | 0.0046 | <0.00015 | <0.00015 | <0.00015 |
| Cadmium | mg.L$^{-1}$ | 0.00002 | | | 124.00 | | | <0.00002 | <0.00008 | 0.0007 | CBH124 | 0.000030 | 0.000030 | 0.000070 | 0.000090 | 0.000090 | <0.00002 | <0.00002 | <0.00002 | 0.000050 | 0.000040 | 0.000050 | <0.00002 | <0.00002 | <0.00002 |
| Chromium (VI) | mg.L$^{-1}$ | 0.005 | | | 124.00 | | | <0.005 | <0.005 | <0.005 | n/a | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | mg.L$^{-1}$ | 0.0002 | | | 124.00 | | | <0.0002 | <0.0007 | 0.0064 | MW25-27 | <0.0002 | <0.0002 | 0.0018 | 0.0019 | <0.0002 | 0.00086 | 0.00094 | 0.00079 | 0.00068 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Copper | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0032 | 0.017 | CBH108-DU | 0.0033 | 0.0029 | 0.0058 | 0.0040 | 0.0021 | 0.00060 | <0.0005 | 0.0019 | 0.0025 | 0.0025 | 0.0026 | 0.0015 | 0.0027 | 0.00070 |
| Calcium | mg.L$^{-1}$ | 0.012 | | | 122 | | | <0.012 | <217.347 | 830 | MW25-08 | 190.00 | 190.00 | 170.00 | 170.00 | 180.00 | 460.00 | 530.00 | 830.00 | 110.00 | 110.00 | 160.00 | 1.0 | <0.012 | 0.30 |
| Iron | mg.L$^{-1}$ | 0.004 | | | 124 | | | <0.004 | <0.516 | 4.4 | MW25-10 | 0.018 | 0.0040 | 0.14 | 0.070 | 0.22 | 1.60 | 0.43 | 0.29 | 0.0090 | 0.0040 | <0.004 | <0.004 | <0.004 | <0.004 |
| Lead | mg.L$^{-1}$ | 0.0002 | | | 124.00 | | | <0.0002 | <0.0003 | 0.005 | CBH104 | <0.0002 | <0.0002 | 0.00070 | 0.00040 | <0.0002 | 0.00030 | 0.00030 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00005 | 0.0011 | 0.095 | 124.00 | 2 | 0 | <0.00005 | <0.0001 | 0.002 | MW25-17 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | <0.0005 | <0.0055 | 0.023 | MW25-17 | 0.0021 | 0.0019 | 0.0064 | 0.0078 | 0.0095 | 0.0034 | 0.0063 | 0.0076 | 0.0059 | 0.0045 | 0.0061 | <0.0005 | <0.0005 | <0.0005 |
| Selenium | mg.L$^{-1}$ | 0.0006 | | | 124.00 | | | <0.0006 | <0.0026 | 0.015 | MW25-14 | <0.0006 | <0.0006 | 0.0010 | 0.0011 | 0.0012 | 0.0051 | 0.0052 | 0.0083 | 0.0018 | 0.0019 | 0.0017 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | mg.L$^{-1}$ | 0.0005 | | | 124.00 | | | 0.0006 | 0.0059 | 0.05 | CBH104 | 0.0015 | 0.0028 | 0.0068 | 0.0039 | 0.0027 | 0.0021 | 0.0019 | 0.0031 | 0.0032 | 0.0015 | 0.0036 | 0.0019 | 0.0031 | 0.0014 |
| Benzene | mg.L$^{-1}$ | 0.001 | 0.21 | 20 | 123.00 | 29 | 1 | <0.001 | <0.841 | 22 | MW25-23B | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 |
| Toluene | mg.L$^{-1}$ | 0.001 | 230 | 21000 | 123.00 | 0 | 0 | <0.001 | <0.405 | 14 | MW25-23B | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 |
| Ethylbenzene | mg.L$^{-1}$ | 0.001 | 10 | 960 | 123.00 | 0 | 0 | <0.001 | <0.022 | 0.39 | MW25-10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 |
| Xylene (p & m-Xylene) | mg.L$^{-1}$ | 0.001 | | | 123.00 | | | <0.001 | <0.147 | 4.10 | MW25-23B | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 |
| Xylene (o-Xylene) | mg.L$^{-1}$ | 0.001 | 12 | 1100 | 123.00 | 0 | 0 | <0.001 | <0.087 | 2 | MW25-23B | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 |
| Methyl tert-butyl ether | mg.L$^{-1}$ | 0.003 | 83 | 7800 | 56.00 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | <0.003 | | | <0.003 | | | <0.003 | | | <0.003 | | |
| TPH (C10 - C40) | mg.L$^{-1}$ | 0.01 | | | 111.00 | | | <0.01 | <6.45 | 166 | MW25-27 | 0.090 | | <0.01 | <0.01 | <0.01 | 0.85 | 0.28 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <10.06 | 203 | MW25-27 | 0.090 | <0.01 | <0.01 | <0.01 | <0.01 | 0.80 | 0.28 | 0.32 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 0.001 | 1.9 | 190 | 124.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 0.001 | 1.5 | 150 | 124.00 | 0 | 0 | <0.001 | <0.001 | 0.061 | MW25-33 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.001 | 0.057 | 5.7 | 124.00 | 0 | 0 | <0.001 | <0.001 | 0.030 | MW25-33 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.01 | 0.037 | 3.6 | 124.00 | 6 | 0 | <0.01 | <0.07 | 3.11 | MW25-27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.03 | 0.62 | MW25-27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | 0.020 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.02 | 0.32 | CBH129 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | 0.020 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.02 | 0.7 | CBH129 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.18 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 110 | | | <0.01 | <0.12 | 3.92 | MW25-27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.24 | <0.01 | 0.15 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.11 | 3.92 | MW25-27 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.24 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | mg.L$^{-1}$ | 0.001 | 210 | 20000 | 124.00 | 0 | 0 | <0.001 | <0.826 | 22 | MW25-23B | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | mg.L$^{-1}$ | 0.001 | 220 | 21000 | 124.00 | 0 | 0 | <0.001 | <0.402 | 14 | MW25-23B | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 0.001 | 1.9 | 190 | 124.00 | 4 | 0 | <0.001 | <0.26 | 6.60 | MW25-23B | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.01 | 6.8 | 660 | 124.00 | 16 | 0 | <0.01 | <5.87 | 156 | MW25-27 | 0.050 | <0.01 | <0.01 | <0.01 | <0.01 | 0.040 | 0.070 | 0.020 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.01 | 39 | 3700 | 124.00 | 0 | 0 | <0.01 | <1.84 | 33.70 | MW25-27 | 0.040 | <0.01 | <0.01 | <0.01 | <0.01 | 0.080 | 0.12 | 0.090 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | | 124.00 | | | <0.01 | <0.41 | 9.17 | MW25-23B | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.050 | 0.090 | 0.060 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <0.38 | 8 | MW25-16A- | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.39 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 110 | | | <0.01 | <6.75 | 192 | MW25-27 | 0.090 | <0.01 | <0.01 | <0.01 | <0.01 | 0.56 | 0.28 | 0.17 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 124 | | | <0.01 | <9.95 | 199 | MW25-27 | 0.090 | <0.01 | <0.01 | <0.01 | <0.01 | 0.56 | 0.28 | 0.17 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 4-Chlorophenol | mg.L$^{-1}$ | 0.0001 | | | 1 | | | 0 | 0 | 0 | MW25-23B | | | | | | | | | | | | | | |
| 3,5-Dimethylphenol | mg.L$^{-1}$ | 0.0001 | | | 1 | | | 0 | 0 | 0 | MW25-23B | | | | | | | | | | | | | | |
| Chloromethane | mg.L$^{-1}$ | 0.003 | 0.014 | 1.4 | 22 | 0 | 0 | <0.001 | <0.003 | <0.003 | MW25-33 | | | | | | | | | | | | | <0.001 | |
| Chloroethane | mg.L$^{-1}$ | 0.003 | 10 | 1000 | 22 | 0 | 0 | <0.001 | <0.003 | <0.003 | MW25-33 | | | | | | | | | | | | | <0.001 | |
| Bromomethane | mg.L$^{-1}$ | 0.003 | | | 22 | | | <0.001 | <0.003 | <0.003 | MW25-33 | | | | | | | | | | | | | <0.001 | |
| Vinyl chloride (Chloroethene) | mg.L$^{-1}$ | 0.003 | 0.00062 | 0.063 | 22 | 0 | 0 | <0.001 | <0.003 | <0.003 | MW25-33 | | | | | | | | | | | | | <0.001 | |
| Trichlorofluoromethane | mg.L$^{-1}$ | 0.003 | | | 22 | | | <0.001 | <0.003 | <0.003 | MW25-33 | | | | | | | | | | | | | <0.001 | |
| 1,1-Dichloroethene | mg.L$^{-1}$ | 0.003 | 0.16 | 16 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Trans 1,2-dichloroethylene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | mg.L$^{-1}$ | 0.003 | 2.7 | 260 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 2,2-Dichloropropane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Trichloromethane (Chloroform) | mg.L$^{-1}$ | 0.003 | 0.79 | 85 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | mg.L$^{-1}$ | 0.003 | 3 | 290 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,2-Dichloroethane | mg.L$^{-1}$ | 0.003 | 0.0089 | 0.85 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,1-Dichloropropene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Cis-1,2-dichloroethene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Carbontetrachloride | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,2-Dichloropropane | mg.L$^{-1}$ | 0.003 | 0.022 | 2.6 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Trichloroethene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Dibromomethane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Bromodichloromethane | mg.L$^{-1}$ | 0.003 | 0.017 | 1.6 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Cis-1,3-dichloropropene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Trans-1,3-dichloropropene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,1,2 Trichloroethane | mg.L$^{-1}$ | 0.003 | 0.52 | 49 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,3-Dichloropropane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Dibromochloromethane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Tetrachloroethene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,2-Dibromoethane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| ChloroBenzene | mg.L$^{-1}$ | 0.003 | 0.098 | 15 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | mg.L$^{-1}$ | 0.003 | 0.24 | 22 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Styrene | mg.L$^{-1}$ | 0.003 | 8.8 | 810 | 21 | 0 | 0 | <0.003 | <0.253 | 2.27 | MW25-23B | | | | | | | | | | | | | | |
| Bromoform | mg.L$^{-1}$ | 0.003 | 3.1 | 400 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| Bromobenzene | mg.L$^{-1}$ | 0.003 | 0.22 | 20 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| n-Propylbenzene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | 0.0123 | MW25-27 | | | | | | | | | | | | | | |
| 2-Chlorotoluene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 4-Chlorotoluene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.034 | 0.152 | MW25-23B | | | | | | | | | | | | | | |
| tert-Butylbenzene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | 0.0091 | MW25-33 | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | mg.L$^{-1}$ | 0.003 | 0.024 | 2.2 | 21 | 16 | 0 | <0.003 | <0.128 | 0.369 | MW25-23B | | | | | | | | | | | | | | |
| sec-Butylbenzene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,3-dichlorobenzene | mg.L$^{-1}$ | 0.003 | 0.031 | 2.8 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 | | | | | | | | | | | | | | |
| p-Isopropyltoluene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | 0.0053 | MW25-17 | | | | | | | | | | | | | | |
| 1,4-dichlorobenzene | mg.L$^{-1}$ | 0.003 | 5 | 460 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | mg.L$^{-1}$ | 0.003 | 2 | 220 | 21 | 0 | 0 | <0.00005 | <0.002 | 0.011 | MW25-17 | | | | | | | | | | | | | | |
| Butylbenzene | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | mg.L$^{-1}$ | 0.003 | | | 21 | | | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | mg.L$^{-1}$ | 0.003 | 0.068 | 7.2 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 | | | | | | | | | | | | | | |
| Hexachlorobutadiene | mg.L$^{-1}$ | 0.003 | 0.0017 | 0.23 | 21 | 0 | 0 | <0.00005 | <0.002 | <0.003 | MW25-33 | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | mg.L$^{-1}$ | 0.003 | 0.035 | 3.1 | 21 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | | | | | | | | | | | | | |
| 3+4-Methylphenol | mg.L$^{-1}$ | 0.0001 | | | 8 | | | <0.0001 | <4.4151 | 13 | MW25-27 | | | | | | | | | | | | | | |
| Aniline | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.04378 | 0.19 | MW25-16A- | | | | | | | | | | | | | | |
| 2-chlorophenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Bis(2-chloroethyl)ether | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 2-Methylphenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <7.42503 | 23 | MW25-27 | | | | | | | | | | | | | | |
| Hexachloroethane | mg.L$^{-1}$ | 0.00005 | 0.0085 | 0.74 | 8 | 0 | 0 | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Nitrobenzene | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 4-Methylphenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <4.41503 | 13 | MW25-27 | | | | | | | | | | | | | | |
| Isophorone | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 2-Nitrophenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <9.51001 | 22 | MW25-27 | | | | | | | | | | | | | | |
| Bis(2-chloroethoxy)methane | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 4-Chloroaniline | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.28251 | 1.2 | MW25-16A- | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | mg.L$^{-1}$ | 0.00005 | 0.16 | 14 | 8 | 0 | 0 | <0.00005 | <0.00026 | 0.0018 | MW25-16A- | | | | | | | | | | | | | | |
| Dimethylphthalate | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00016 | 0.001 | MW25-16A- | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00005 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Dibenzofuran | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.08076 | 0.43 | MW25-16A- | | | | | | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Diethyl phthalate | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| 4-Nitroaniline | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Azobenzene | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Bromophenyl phenyl ether | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Hexachlorobenzene | mg.L$^{-1}$ | 0.00005 | 0.016 | 1.4 | 8 | 0 | 0 | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Carbazole | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.10319 | 0.25 | MW25-16A- | | | | | | | | | | | | | | |
| Dibutyl phthalate | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Anthraquinone | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| Butyl benzyl phthalate | mg.L$^{-1}$ | 0.00005 | | | 8 | | | <0.00005 | <0.00004 | <0.00005 | n/a | | | | | | | | | | | | | | |
| PCB Congener 28 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a | | | | | | | | | | | | | | |
| PCB Congener 52 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a | | | | | | | | | | | | | | |
| PCB Congener 101 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a | | | | | | | | | | | | | | |
| PCB Congener 118 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a | | | | | | | | | | | | | | |
| PCB Congener 138 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a | | | | | | | | | | | | | | |
| PCB Congener 153 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a | | | | | | | | | | | | | | |
| PCB Congener 180 | mg.L$^{-1}$ | 0.00002 | | | 5 | | | <0.00002 | <0.00002 | <0.00002 | n/a | | | | | | | | | | | | | | |
| Total ICES-7 PCBs | mg.L$^{-1}$ | 0.00014 | | | 5 | | | <0.00014 | <0.00011 | <0.00014 | n/a | | | | | | | | | | | | | | |

| NUMBER OF SAMPLES: | 4 | | | | | | | | | | | Sample Location | MW25-28A | MW25-28A | MW25-28A | MW25-28A-DUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Monitoring Round No. | 1 | 2 | 3 | 1 |
| | | | | | | EXCEEDS BOTH | | | | | | Date Sampled | 17/03/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 |
| | | | CRITERIA 1 | CRITERIA 2 | | CRITERIA 1 | CRITERIA 2 | | | | | Stratum | Wolston Sand and Gravel | | | |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Residential** | **Commercial** | **No. Analyses** | **Exceedances** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** | | | | | |
| pH | pH Units | N/A | | | 4.00 | | | 7.4 | 7.5 | 7.60 | MW25-28A | | 7.50 | 7.60 | 7.40 | 7.40 |
| Conductivity | µS/cm | 10 | | | 4.00 | | | 950 | 975 | 1000.00 | MW25-28A | | 960.00 | 990.00 | 1000.00 | 950.00 |
| Cyanide (Total) (as CN) | $mg.L^{-1}$ | 0.01 | | | 4.00 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Complexed cyanide | $mg.L^{-1}$ | 0.01 | | | 4.00 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Easily liberatable cyanide | $mg.L^{-1}$ | 0.01 | | | 4.00 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | $mg.L^{-1}$ | 0.2 | | | 4.00 | | | <0.2 | <0.2 | <0.2 | n/a | | <0.2 | <0.2 | <0.2 | <0.2 |
| Sulphate | $mg.L^{-1}$ | 0.045 | | | 4.00 | | | 118 | 125.75 | 133.00 | MW25-28A | | 124.00 | 128.00 | 133.00 | 118.00 |
| Sulphur (Elemental) | $mg.L^{-1}$ | 0.02 | | | 3.00 | | | <0.02 | <0.02 | <0.02 | n/a | | <0.02 | | <0.02 | <0.02 |
| Sulphide | $mg.L^{-1}$ | 0.005 | | | 4.00 | | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | $mg.L^{-1}$ | 0.15 | | | 4.00 | | | 88 | 96.5 | 110.000 | MW25-28A | | 88.00 | 110.00 | 100.00 | 88.00 |
| Ammonium as NH4 | $mg.L^{-1}$ | 0.015 | | | 4.00 | | | <0.015 | <0.015 | 0.02 | MW25-28A | | <0.015 | 0.015 | <0.015 | <0.015 |
| Dissolved Organic Carbon (DOC) | $mg.L^{-1}$ | 0.1 | | | 4.00 | | | 1.71 | 2 | 2.19 | MW25-28A | | 1.71 | 2.19 | 2.03 | 1.88 |
| Total Suspended Solids | $mg.L^{-1}$ | 2 | | | 4.00 | | | 270 | 4120 | 15000.00 | MW25-28A | | 270.00 | 15000.00 | 460.00 | 750.00 |
| Total Organic Carbon (TOC) | $mg.L^{-1}$ | 0.1 | | | 4.00 | | | 1.78 | 2.1 | 2.48 | MW25-28A | | 1.78 | 2.48 | 2.03 | 1.92 |
| Alkalinity as CaCO3 | $mgCaCO.L^{-1}$ | 3 | | | 4 | | | 260 | 282.5 | 300 | MW25-28A | | 300.00 | 260.00 | 280.00 | 290.00 |
| Hardness - Total | $mgCaCO.L^{-1}$ | 1 | | | 4 | | | 414 | 446.5 | 497 | MW25-28A | | 434.00 | 441.00 | 497.00 | 414.00 |
| Catechol | $mg.L^{-1}$ | 0.0005 | | | 4.00 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | $mg.L^{-1}$ | 0.0005 | | | 4.00 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | $mg.L^{-1}$ | 0.0005 | | | 4 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | $mg.L^{-1}$ | 0.0005 | | | 4.00 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | $mg.L^{-1}$ | 0.0005 | | | 4 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Total Xylenols & Ethylphenols | $mg.L^{-1}$ | 0.0005 | | | 4 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | $mg.L^{-1}$ | 0.0005 | | | 4.00 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | $mg.L^{-1}$ | 0.0005 | | | 4.00 | | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | $mg.L^{-1}$ | 0.0035 | | | 4.00 | | | <0.0035 | <0.0035 | <0.0035 | n/a | | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | $mg.L^{-1}$ | 0.00001 | 0.22 | 23 | 4.00 | 0 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthylene | $mg.L^{-1}$ | 0.00001 | 220 | 20000 | 4.00 | 0 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | $mg.L^{-1}$ | 0.00001 | 170 | 15000 | 4.00 | 0 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | $mg.L^{-1}$ | 0.00001 | 210 | 18000 | 4.00 | 0 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | $mg.L^{-1}$ | 0.00001 | | | 4.00 | | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| PAH 16 Total | $mg.L^{-1}$ | 0.00016 | | | 4.00 | | | <0.00016 | <0.00016 | <0.00016 | n/a | | <0.00016 | <0.00016 | <0.00016 | <0.00016 |
| Arsenic | $mg.L^{-1}$ | 0.00015 | | | 4.00 | | | 0.0011 | 0.00133 | 0.00 | MW25-28A | | 0.0012 | 0.0013 | 0.0017 | 0.0011 |
| Calcium | $mg.L^{-1}$ | 0.012 | | | 4 | | | 130 | 140 | 160 | MW25-28A | | 140.00 | 130.00 | 160.00 | 130.00 |
| Cadmium | $mg.L^{-1}$ | 0.00002 | | | 4.00 | | | 0.00004 | 0.00006 | 0.00 | MW25-28A | | 0.000060 | 0.000080 | 0.000060 | 0.000040 |
| Chromium (VI) | $mg.L^{-1}$ | 0.005 | | | 4.00 | | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | $mg.L^{-1}$ | 0.0002 | | | 4.00 | | | <0.0002 | <0.0003 | 0.00 | MW25-28A-DUP | | 0.00034 | 0.00022 | <0.0002 | 0.00036 |
| Copper | $mg.L^{-1}$ | 0.0005 | | | 4.00 | | | 0.0013 | 0.0024 | 0.00 | MW25-28A | | 0.0022 | 0.0013 | 0.0041 | 0.0021 |
| Iron | $mg.L^{-1}$ | 0.004 | | | 4 | | | 0.008 | 0.03 | 0.087 | MW25-28A | | 0.016 | 0.087 | 0.008 | 0.008 |
| Lead | $mg.L^{-1}$ | 0.0002 | | | 4.00 | | | <0.0002 | <0.0002 | <0.0002 | n/a | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | $mg.L^{-1}$ | 0.00005 | 0.0011 | 0.095 | 4.00 | 0 | 0 | <0.00005 | <0.00005 | <0.00005 | n/a | | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | $mg.L^{-1}$ | 0.0005 | | | 4.00 | | | 0.0036 | 0.004 | 0.00 | MW25-28A | | 0.0040 | 0.0049 | 0.0036 | 0.0036 |
| Selenium | $mg.L^{-1}$ | 0.0006 | | | 4.00 | | | 0.0006 | 0.0009 | 0.00 | MW25-28A | | 0.00090 | 0.0012 | 0.00090 | 0.00060 |
| Vanadium | $mg.L^{-1}$ | | | | | | | | | | | | | | | |
| Zinc | $mg.L^{-1}$ | 0.0005 | | | 4.00 | | | 0.0016 | 0.0023 | 0.00 | MW25-28A | | 0.0022 | 0.0016 | 0.0027 | 0.0026 |
| Benzene | $mg.L^{-1}$ | 0.001 | 0.21 | 20 | 4.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | $mg.L^{-1}$ | 0.001 | 230 | 21000 | 4.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | $mg.L^{-1}$ | 0.001 | 10 | 960 | 4.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | $mg.L^{-1}$ | 0.001 | | | 4.00 | | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | $mg.L^{-1}$ | 0.001 | 12 | 1100 | 4.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Methyl tert-butyl ether | $mg.L^{-1}$ | 0.003 | 83 | 7800 | 2.00 | 0 | 0 | <0.003 | <0.003 | <0.003 | n/a | | <0.003 | | | <0.003 |
| TPH (C10 - C40) | $mg.L^{-1}$ | 0.01 | | | 4.00 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | $mg.L^{-1}$ | 0.01 | | | 4.00 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | $mg.L^{-1}$ | 0.001 | 1.9 | 190 | 4.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | $mg.L^{-1}$ | 0.001 | 1.5 | 150 | 4.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | $mg.L^{-1}$ | 0.001 | 0.057 | 5.7 | 4.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | $mg.L^{-1}$ | 0.01 | 0.037 | 3.6 | 4.00 | 0 | 0 | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | $mg.L^{-1}$ | 0.01 | | | 4.00 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | $mg.L^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | $mg.L^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 – C35 | $mg.L^{-1}$ | | | | | | | | | | | | | | | |
| Total Aliphatic C10 - C35 | $mg.L^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | $mg.L^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | $mg.L^{-1}$ | 0.001 | 210 | 20000 | 4.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | $mg.L^{-1}$ | 0.001 | 220 | 21000 | 4.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | $mg.L^{-1}$ | 0.001 | 1.9 | 190 | 4.00 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | $mg.L^{-1}$ | 0.01 | 6.8 | 660 | 4.00 | 0 | 0 | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | $mg.L^{-1}$ | 0.01 | 39 | 3700 | 4.00 | 0 | 0 | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | $mg.L^{-1}$ | 0.01 | | | 4.00 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | $mg.L^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 – C35 | $mg.L^{-1}$ | | | | | | | | | | | | | | | |
| Total Aromatic C10 - C35 | $mg.L^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | $mg.L^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 |

# Table E: Screened Soil Leachate Analytical Data - Area A

Brick Kiln Street, Hinckley

| NUMBER OF SAMPLES: | 3 | | | | | | | | | Sample Location | MW25-02 | MW25-03 | MW25-06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Depth (m bgl) | 0.50 | 0.30 | 0.20 |
| | | | | | | | | | | Date Sampled | 03/02/2025 | 03/02/2025 | 05/02/2025 |
| | | | CRITERIA 1 | | CRITERIA 1 | | | | | Stratum | MGR | MGR | MGR |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Environmental Quality Standards for freshwater surface waters** | **No. Analyses** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** | | | | |
| pH | pH Units | N/A | 6-9 | 3 | 0 | 7.9 | 8.2 | 8.5 | MW25-06 | | 7.90 | 8.20 | 8.50 |
| Sulphate as $SO_4$ | $mg.L^{-1}$ | 0.045 | | 3 | | 5.1 | 10.98 | 18.7 | MW25-03 | | 9.14 | 18.70 | 5.10 |
| Total Suspended Solids | $mg.L^{-1}$ | 2 | | 3 | | <2 | <2.2 | 2.7 | MW25-06 | | <2 | <2 | 2.70 |
| Conductivity | $\mu S.cm^{-1}$ | 10 | | 3 | | 67 | 119 | 160 | MW25-03 | | 130.00 | 160.00 | 67.00 |
| Cyanide (Total) (as CN) | $mg.L^{-1}$ | 0.01 | | 3 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 |
| Complexed cyanide | $mg.L^{-1}$ | 0.01 | | 3 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 |
| Easily liberatable cyanide | $mg.L^{-1}$ | 0.01 | 0.001 | 3 | 0 | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 |
| Thiocyanate | $mg.L^{-1}$ | 0.2 | | 3 | | <0.2 | <0.2 | <0.2 | n/a | | <0.2 | <0.2 | <0.2 |
| Sulphur (Elemental) | $mg.L^{-1}$ | 20 | | 3 | | <20 | <20 | <20 | n/a | | <20 | <20 | <20 |
| Sulphide | $mg.L^{-1}$ | 0.005 | | 3 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | <0.005 | <0.005 |
| Chloride | $mg.L^{-1}$ | 0.15 | 250 | 3 | 0 | 1.6 | 5.27 | 9 | MW25-02 | | 9.00 | 5.20 | 1.60 |
| Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | $mg.L^{-1}$ | 0.015 | | 3 | | 0.019 | 1 | 2.8 | MW25-02 | | 2.80 | 0.18 | 0.019 |
| Ammoniacal N (total) as N | $mg.L^{-1}$ | 0.011667 | 1.1 | 3 | 1 | 0.0147782 | 0.777541 | 2.17784 | MW25-02 | | **2.18** | 0.14 | 0.015 |
| Un-ionised ammonia as nitrogen (NH3 as N) | $mg.L^{-1}$ | 0.011667 | | 3 | | 0.0147782 | 0.777541 | 2.17784 | MW25-02 | | 2.18 | 0.14 | 0.015 |
| Dissolved Organic Carbon (DOC) | $mg.L^{-1}$ | 0.1 | | 3 | | 3.9 | 14 | 27 | MW25-02 | | 27.00 | 11.00 | 3.90 |
| Catechol | $mg.L^{-1}$ | 0.0005 | | 3 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | $mg.L^{-1}$ | 0.0005 | | 3 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | $mg.L^{-1}$ | 0.0005 | | 3 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | $mg.L^{-1}$ | 0.0005 | 0.1 | 3 | 0 | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 |
| 2-Isopropylphenol | $mg.L^{-1}$ | 0.0005 | | 3 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol (2,3,5-) | $mg.L^{-1}$ | 0.0005 | | 3 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | $mg.L^{-1}$ | 0.0005 | | 3 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 |
| Phenol | $mg.L^{-1}$ | 0.0005 | 0.0077 | 3 | 0 | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | $mg.L^{-1}$ | | | | | | | | | | | | |
| Phenols (Total) | $mg.L^{-1}$ | 0.0035 | | 3 | | <0.0035 | <0.0035 | <0.0035 | n/a | | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | $mg.L^{-1}$ | 0.00001 | 0.002 | 3 | 0 | <0.00001 | <0.00011 | 0.00021 | MW25-03 | | <0.00001 | 0.00021 | 0.00011 |
| Acenaphthylene | $mg.L^{-1}$ | 0.00001 | | 3 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | $mg.L^{-1}$ | 0.00001 | | 3 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | $mg.L^{-1}$ | 0.00001 | | 3 | | 0.00001 | 0.00003 | 0.00004 | MW25-02 | | 0.000040 | 0.000030 | 0.000010 |
| Phenanthrene | $mg.L^{-1}$ | 0.00001 | | 3 | | 0.00004 | 0.00011 | 0.00018 | MW25-02 | | 0.00018 | 0.00011 | 0.000040 |
| Anthracene | $mg.L^{-1}$ | 0.00001 | 0.0001 | 3 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.0000063 | 3 | 2 | <0.00001 | <0.00005 | 0.00009 | MW25-02 | | **0.000090** | **0.000040** | <0.00001 |
| Pyrene | $mg.L^{-1}$ | 0.00001 | | 3 | | <0.00001 | <0.00003 | 0.00006 | MW25-02 | | 0.000060 | 0.000030 | <0.00001 |
| Benzo[a]anthracene | $mg.L^{-1}$ | 0.00001 | | 3 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | $mg.L^{-1}$ | 0.00001 | | 3 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.000017 | 3 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.000017 | 3 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | $mg.L^{-1}$ | 0.00001 | 0.00000017 | 3 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00001 | | 3 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | $mg.L^{-1}$ | 0.00001 | | 3 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | $mg.L^{-1}$ | 0.00001 | 0.0000082 | 3 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00002 | | 3 | | <0.00002 | <0.00002 | <0.00002 | n/a | | <0.00002 | <0.00002 | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00004 | | 3 | | <0.00004 | <0.00004 | <0.00004 | n/a | | <0.00004 | <0.00004 | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00002 | | 3 | | <0.00002 | <0.00002 | <0.00002 | n/a | | <0.00002 | <0.00002 | <0.00002 |
| PAH 16 Total | $mg.L^{-1}$ | 0.00016 | | 3 | | <0.00016 | <0.00032 | 0.00041 | MW25-03 | | 0.00038 | 0.00041 | <0.00016 |
| Arsenic | $mg.L^{-1}$ | 0.001 | 0.05 | 3 | 0 | 0.001 | 0.003 | 0.005 | MW25-02 | | 0.0050 | 0.0010 | 0.0020 |
| Cadmium | $mg.L^{-1}$ | 0.00008 | <0.00008 | 3 | 0 | <0.00008 | <0.00008 | <0.00008 | n/a | | <0.00008 | <0.00008 | <0.00008 |
| Chromium (VI) | $mg.L^{-1}$ | 0.005 | 0.0034 | 3 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | $mg.L^{-1}$ | 0.0004 | 0.0034 | 3 | 1 | <0.0004 | <0.0019 | 0.0048 | MW25-02 | | **0.0048** | <0.0004 | <0.0004 |
| Copper | $mg.L^{-1}$ | 0.0007 | 0.001 | 3 | 2 | 0.0009 | 0.0022 | 0.0047 | MW25-02 | | **0.0047** | 0.00090 | **0.0011** |
| Iron | $mg.L^{-1}$ | 0.004 | 1 | 3 | 1 | 0.089 | 1.63 | 4.2 | MW25-02 | | **4.2000** | 0.08900 | 0.60000 |
| Lead | $mg.L^{-1}$ | 0.001 | 0.0012 | 3 | 1 | <0.001 | <0.002 | 0.004 | MW25-02 | | **0.0040** | <0.001 | <0.001 |
| Mercury (inorganic) | $mg.L^{-1}$ | 0.0005 | 0.00007 | 3 | 0 | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 |
| Nickel | $mg.L^{-1}$ | 0.0003 | 0.004 | 3 | 1 | <0.0003 | <0.0019 | 0.005 | MW25-02 | | **0.0050** | 0.00050 | <0.0003 |
| Selenium | $mg.L^{-1}$ | 0.004 | | 3 | | <0.004 | <0.004 | <0.004 | n/a | | <0.004 | <0.004 | <0.004 |
| Zinc | $mg.L^{-1}$ | 0.0004 | 0.0123 | 3 | 0 | 0.0019 | 0.0049 | 0.0095 | MW25-02 | | 0.0095 | 0.0019 | 0.0032 |
| Benzene | $mg.L^{-1}$ | 0.001 | 0.01 | 3 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 |
| Toluene | $mg.L^{-1}$ | 0.001 | 0.074 | 3 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | $mg.L^{-1}$ | 0.001 | 0.02 | 3 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | $mg.L^{-1}$ | 0.001 | | 3 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | $mg.L^{-1}$ | 0.001 | | 3 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | $mg.L^{-1}$ | 0.002 | 0.03 | 3 | 0 | <0.002 | <0.002 | <0.002 | n/a | | <0.002 | <0.002 | <0.002 |
| TPH (C10 - C40) | $mg.L^{-1}$ | 0.01 | | 3 | | <0.01 | <0.06 | 0.1 | MW25-03 | | 0.060 | 0.10 | <0.01 |

MGR = Made Ground

**NUMBER OF SAMPLES: 40**

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Environmental Quality Standards for freshwater surface waters | CRITERIA 2 Combined Drinking Water Screening values | No. Analyses | CRITERIA 1 Exceedances | CRITERIA 2 Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | pH Units | N/A | 6-9 | 6.5<9.5 | 40 | 5 | 0 | 4.5 | 8.1 | 10.5 | MW25-22 |
| Sulphate as $SO_4$ | mg.L$^{-1}$ | 0.045 | | | 40 | | | 1.76 | 318.838 | 1810 | TP25-19 |
| Total Suspended Solids | mg.L$^{-1}$ | 2 | | | 39 | | | <2 | <3.9 | 17.7 | MW25-30B |
| Conductivity | µS.cm$^{-1}$ | 10 | | 2500 | 40 | | 0 | 43 | 562.6 | 2200 | TP25-22 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.01 | | 0.05 | 40 | | 27 | <0.01 | <1.51 | 50 | TP25-20 |
| Complexed cyanide | mg.L$^{-1}$ | 0.01 | | | 40 | | | <0.01 | <1.51 | 50.26 | TP25-20 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 | 0.001 | 0.05 | 40 | 2 | 1 | <0.01 | <0.01 | 0.087 | TP25-20 |
| Thiocyanate | mg.L$^{-1}$ | 0.2 | | | 40 | | | <0.2 | <0.5 | 9 | TP25-20 |
| Sulphur (Elemental) | mg.L$^{-1}$ | 20 | | | 40 | | | <20 | <19.5 | <20 | n/a |
| Sulphide | mg.L$^{-1}$ | 0.005 | | | 40 | | | <0.005 | <0.005 | <0.005 | n/a |
| Chloride | mg.L$^{-1}$ | 0.15 | 250 | 250 | 40 | 0 | 0 | 0.39 | 15.42 | 69 | TP25-20 |
| Ammonium as NH4 | mg.L$^{-1}$ | 0.015 | | 0.5 | 40 | | 22 | <0.015 | <4.072 | 40 | TP25-20 |
| Ammoniacal N (total) as N | mg.L$^{-1}$ | 0.011667 | 1.1 | | 40 | 17 | | <0.011667 | <3.166813 | 31.112 | TP25-20 |
| Un-ionised ammonia as nitrogen (NH3 as N) | mg.L$^{-1}$ | 0.011667 | | | 40 | | | <0.011667 | <3.166813 | 31.112 | TP25-20 |
| Dissolved Organic Carbon (DOC) | mg.L$^{-1}$ | 0.1 | | | 40 | | | 3.7 | 18.3 | 100 | VW25-21 |
| Catechol | mg.L$^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.0005 | <0.0005 | n/a |
| Resorcinol | mg.L$^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.0005 | <0.0005 | n/a |
| Ethylphenol & Dimethylphenol | mg.L$^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.1259 | 5.015 | MW25-27 |
| Cresols (Total) | mg.L$^{-1}$ | 0.0005 | 0.1 | | 40 | 1 | | <0.0005 | <0.0585 | 2.322 | MW25-27 |
| 2-Isopropylphenol | mg.L$^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.0005 | <0.0005 | n/a |
| Trimethylphenol (2,3,5-) | mg.L$^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.0005 | <0.0005 | n/a |
| Naphthols | mg.L$^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.0005 | <0.0005 | n/a |
| Phenol | mg.L$^{-1}$ | 0.0005 | 0.0077 | | 40 | 1 | | <0.0005 | <0.0078 | 0.2918 | MW25-22 |
| Trimethylphenol | mg.L$^{-1}$ | | | | | | | | | | |
| Phenols (Total) | mg.L$^{-1}$ | 0.0035 | | | 40 | | | <0.0035 | <0.1931 | 7.3 | MW25-27 |
| Naphthalene | mg.L$^{-1}$ | 0.00001 | 0.002 | | 40 | 13 | | <0.00001 | <0.16254 | 2.1455 | TP25-20 |
| Acenaphthylene | mg.L$^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00947 | 0.12106 | MW25-10 |
| Acenaphthene | mg.L$^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.0071 | 0.17546 | TP25-18 |
| Fluorene | mg.L$^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00515 | 0.06652 | TP25-18 |
| Phenanthrene | mg.L$^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00342 | 0.03357 | TP25-18 |
| Anthracene | mg.L$^{-1}$ | 0.00001 | 0.0001 | | 40 | 9 | | <0.00001 | <0.00049 | 0.00685 | MW25-10 |
| Fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.0000063 | | 40 | 26 | | <0.00001 | <0.00048 | 0.00517 | MW25-27 |
| Pyrene | mg.L$^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00035 | 0.00329 | MW25-27 |
| Benzo[a]anthracene | mg.L$^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00005 | 0.0008 | MW25-30B |
| Chrysene | mg.L$^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00004 | 0.0007 | MW25-30B |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 40 | 2 | | <0.00001 | <0.00003 | 0.00053 | MW25-30B |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 40 | 2 | | <0.00001 | <0.00002 | 0.00021 | MW25-30B |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 | 0.00000017 | 0.00001 | 40 | 1 | 1 | <0.00001 | <0.00002 | 0.00061 | MW25-30B |
| Indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00002 | 0.00017 | MW25-30B |
| Dibenz(a,h)anthracene | mg.L$^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00001 | <0.00001 | n/a |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00001 | 0.0000082 | | 40 | 3 | | <0.00001 | <0.00002 | 0.00013 | MW25-24 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00002 | | | 40 | | | <0.00002 | <0.00005 | 0.00074 | n/a |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00004 | | 0.0001 | 40 | | 0 | <0.00004 | <0.00008 | <0.001 | MW25-30B |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00002 | | | 40 | | | <0.00002 | <0.00004 | 0.00022 | n/a |
| PAH 16 Total | mg.L$^{-1}$ | 0.00016 | | | 40 | | | <0.00016 | <0.1855 | 2.1595 | TP25-20 |
| Arsenic | mg.L$^{-1}$ | 0.001 | 0.05 | 0.01 | 40 | 1 | 8 | <0.001 | <0.008 | 0.055 | MW25-29 |
| Cadmium | mg.L$^{-1}$ | 0.00008 | 0.00025 | 0.005 | 40 | 1 | 0 | <0.00008 | <0.00017 | 0.00354 | MW25-07 |
| Chromium (VI) | mg.L$^{-1}$ | 0.005 | 0.0034 | | 40 | 1 | | <0.005 | <0.005 | 0.007 | MW25-27 |
| Chromium (Total) | mg.L$^{-1}$ | 0.0004 | 0.0034 | 0.05 | 40 | 5 | 0 | <0.0004 | <0.0016 | 0.0072 | MW25-27 |
| Copper | mg.L$^{-1}$ | 0.0007 | 0.001 | 2 | 40 | 36 | 0 | <0.0007 | <0.0069 | 0.0278 | MW25-24 |
| Iron | mg.L$^{-1}$ | 0.004 | 1 | 0.2 | 40 | 10 | 26 | 0.034 | 1.282 | 19 | TP25-20 |
| Lead | mg.L$^{-1}$ | 0.001 | 0.0012 | 0.01 | 40 | 19 | 2 | <0.001 | <0.005 | 0.11 | MW25-19A |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.0005 | 0.00007 | 0.001 | 40 | 1 | 1 | <0.0005 | <0.0005 | 0.00159 | MW25-36 |
| Nickel | mg.L$^{-1}$ | 0.0003 | 0.004 | 0.02 | 40 | 11 | 1 | <0.0003 | <0.006 | 0.0961 | MW25-07 |
| Selenium | mg.L$^{-1}$ | 0.004 | | 0.01 | 40 | | 0 | <0.004 | <0.004 | 0.007 | MW25-15C |
| Zinc | mg.L$^{-1}$ | 0.0004 | 0.0123 | | 40 | 7 | | <0.0004 | <0.0246 | 0.7297 | MW25-07 |
| Benzene | mg.L$^{-1}$ | 0.001 | 0.01 | 0.001 | 40 | 6 | 9 | <0.001 | <0.009 | 0.13 | MW25-10 |
| Toluene | mg.L$^{-1}$ | 0.001 | 0.074 | 0.7 | 40 | 3 | 0 | <0.001 | <0.017 | 0.29 | MW25-10 |
| Ethylbenzene | mg.L$^{-1}$ | 0.001 | 0.02 | 0.3 | 40 | 6 | 0 | <0.001 | <0.013 | 0.12 | MW25-10 |
| Xylene (p & m-Xylene) | mg.L$^{-1}$ | 0.001 | | | 40 | | | <0.001 | <0.027 | 0.25 | MW25-27 |
| Xylene (o-Xylene) | mg.L$^{-1}$ | 0.001 | | | 40 | | | <0.001 | <0.02 | 0.17 | MW25-10 |
| Xylenes (Total of m and p, o-xylenes) | mg.L$^{-1}$ | 0.002 | 0.03 | 0.5 | 40 | 6 | 0 | <0.002 | <0.048 | 0.41 | n/a |
| Methyl tert-butyl ether | mg.L$^{-1}$ | 0.003 | | | 22 | | | <0.003 | <0.003 | <0.003 | n/a |
| TPH (C10 - C40) | mg.L$^{-1}$ | 0.01 | | | 18 | | | <0.01 | <0.07 | 0.27 | TP25-22 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 0.001 | | 15 | 23 | | 0 | <0.001 | <0.012 | 0.04 | MW25-05A |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 0.001 | | 15 | 23 | | 0 | <0.001 | <0.001 | <0.001 | n/a |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | 0.3 | 23 | | 0 | <0.001 | <0.002 | 0.034 | TP25-20 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.3 | 23 | | 0 | <0.001 | <0 | <0.01 | MW25-01 |
| Aliphatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | | 23 | | | <0.01 | <0.01 | 0.03 | MW25-05A |
| Aliphatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | | 23 | | | <0.01 | <0.01 | 0.01 | MW25-05A |
| Aliphatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | | 23 | | | <0.01 | <0.01 | <0.01 | n/a |
| Total TPH Aliphatic >EC10 - EC35 | mg.L$^{-1}$ | 0.01 | | | 23 | | | <0.01 | <0.01 | <0.01 | n/a |
| Aromatic C5 - C7 | mg.L$^{-1}$ | 0.001 | | | 23 | | | <0.001 | <2.38 | 13.1 | MW25-27 |
| Aromatic C7 - C8 | mg.L$^{-1}$ | 0.001 | | | 23 | | | <0.001 | <0.015 | 0.13 | MW25-10 |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | | 23 | | | <0.001 | <0.029 | 0.29 | MW25-10 |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.09 | 23 | | 6 | <0.001 | <0.11 | 0.55 | MW25-10 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | 0.09 | 23 | | 16 | <0.01 | <1.42 | 10.1 | MW25-27 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | 0.09 | 23 | | 16 | <0.01 | <0.55 | 2.07 | MW25-13A |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | 0.09 | 23 | | 13 | <0.01 | <0.17 | 0.5 | TP25-18 |
| Total TPH Aromatic >EC10 - EC35 | mg.L$^{-1}$ | 0.01 | | | 23 | | | <0.01 | <0.15 | 0.78 | MW25-01 |

| Analytical Parameter | Settling tanks | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Reservoir | GH1 | GH1 | GH2 | GH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | MW25-01 | MW25-04A | MW25-07 | MW25-35 | TP25-19 | TP25-22 | VW25-20A | VW25-21 | MW25-36 | MW25-13A | MW25-33 | MW25-10 | MW25-30B |
| Depth (m bgl) | 0.45 | 0.70 | 1.50 | 1.00 | 1.60 | 2.40 | 0.75 | 0.75 | 2.90 | 2.70 | 4.00 | 2.50 | 2.20 |
| Date Sampled | 03/02/2025 | 03/02/2025 | 06/02/2025 | 27/02/2025 | 11/02/2025 | 12/02/2025 | 19/02/2025 | 19/02/2025 | 26/02/2025 | 11/02/2025 | 24/02/2025 | 07/02/2025 | 21/02/2025 |
| Stratum | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR |
| pH | 8.30 | 7.80 | 4.50 | 6.50 | 7.40 | 7.80 | 7.90 | 7.10 | 7.80 | 8.40 | 8.10 | 10.00 | 9.70 |
| Sulphate as $SO_4$ | 34.50 | 284.00 | 793.00 | 108.00 | 1810.00 | 1750.00 | 155.00 | 26.30 | 37.40 | 94.30 | 17.80 | 186.00 | 236.00 |
| Total Suspended Solids | <2 | <2 | <2 | <2 | 3.90 | 3.90 | <2 | <2 | 2.70 | <2 | 9.10 | <2 | 17.70 |
| Conductivity | 270.00 | 640.00 | 1400.00 | 310.00 | 1800.00 | 2200.00 | 430.00 | 180.00 | 140.00 | 300.00 | 77.00 | 440.00 | 420.00 |
| Cyanide (Total) (as CN) | 0.052 | 0.18 | <0.01 | 0.20 | 0.064 | 0.88 | 0.31 | 0.010 | 0.20 | 1.0 | 0.015 | 0.87 | 0.33 |
| Complexed cyanide | 0.052 | 0.18 | <0.01 | 0.20 | 0.064 | 0.88 | 0.31 | 0.011 | 0.20 | 1.05 | 0.015 | 0.87 | 0.33 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | 0.40 | <0.2 | <0.2 | <0.2 | <0.2 | 0.40 | <0.2 | 0.70 | <0.2 | 0.30 | <0.2 | 0.40 | <0.2 |
| Sulphur (Elemental) | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 11.00 | 4.90 | 16.00 | 5.20 | 2.90 | 9.80 | 4.10 | 17.00 | 10.00 | 11.00 | 0.39 | 34.00 | 19.00 |
| Ammonium as NH4 | 6.40 | 2.00 | 0.50 | 0.045 | 5.10 | 0.034 | 0.030 | 5.20 | 0.61 | 2.20 | <0.015 | 3.00 | 1.70 |
| Ammoniacal N (total) as N | 4.98 | 1.56 | 0.39 | 0.035 | 3.97 | 0.026 | 0.023 | 4.04 | 0.47 | 1.71 | <0.011667 | 2.33 | 1.32 |
| Un-ionised ammonia as nitrogen (NH3 as N) | 4.98 | 1.56 | 0.39 | 0.035 | 3.97 | 0.026 | 0.023 | 4.04 | 0.47 | 1.71 | <0.011667 | 2.33 | 1.32 |
| Dissolved Organic Carbon (DOC) | 77.00 | 5.90 | 6.10 | 3.70 | 7.80 | 19.00 | 5.20 | 100.00 | 5.10 | 16.00 | 3.80 | 18.00 | 13.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2-Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol (2,3,5-) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | | | | | | | | | | | | | |
| Phenols (Total) | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00024 | 0.00021 | <0.00001 | 1.21 | 0.00057 | 0.98 | 0.71 |
| Acenaphthylene | 0.00032 | <0.00001 | <0.00001 | <0.00001 | 0.0013 | 0.00014 | 0.00027 | <0.00001 | <0.00001 | 0.044 | 0.000040 | 0.12 | 0.080 |
| Acenaphthene | 0.0023 | <0.00001 | <0.00001 | <0.00001 | 0.0013 | 0.00015 | 0.00058 | <0.00001 | <0.00001 | 0.010 | 0.000060 | 0.019 | 0.015 |
| Fluorene | 0.0015 | <0.00001 | <0.00001 | <0.00001 | 0.00048 | 0.00013 | 0.00025 | 0.000040 | <0.00001 | 0.017 | 0.000060 | 0.038 | 0.020 |
| Phenanthrene | 0.00089 | <0.00001 | <0.00001 | <0.00001 | 0.00072 | 0.00029 | 0.00053 | <0.00001 | <0.00001 | 0.011 | 0.00010 | 0.021 | 0.015 |
| Anthracene | 0.00042 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00012 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0069 | <0.00001 |
| Fluoranthene | 0.00047 | <0.00001 | <0.00001 | <0.00001 | 0.00077 | 0.00014 | 0.00030 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0020 | 0.0032 |
| Pyrene | 0.00028 | <0.00001 | <0.00001 | <0.00001 | 0.00058 | 0.00010 | 0.00019 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0019 | 0.0031 |
| Benzo[a]anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00021 | 0.00080 |
| Chrysene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00016 | 0.00070 |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00053 |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00021 |
| Benzo[a]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00061 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00017 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00012 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00074 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00024 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.001 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00022 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00018 |
| PAH 16 Total | 0.0061 | <0.00016 | <0.00016 | <0.00016 | 0.0054 | 0.0011 | 0.0024 | 0.00025 | <0.00016 | 1.29 | 0.00082 | 1.19 | 0.85 |
| Arsenic | 0.0090 | 0.0070 | 0.0020 | <0.001 | 0.034 | 0.0030 | 0.0020 | 0.034 | <0.001 | 0.0030 | 0.0050 | 0.018 | 0.022 |
| Cadmium | <0.00008 | <0.00008 | 0.0035 | <0.00008 | <0.00008 | 0.00015 | <0.00008 | <0.00008 | <0.00008 | <0.00008 | 0.00011 | <0.00008 | <0.00008 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | U/S | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.0043 | <0.0004 | <0.0004 | 0.0012 | <0.0004 | 0.00080 | 0.00070 | 0.0018 | 0.00050 | <0.0004 | <0.0004 | 0.0010 | 0.0014 |
| Copper | 0.0065 | 0.00080 | 0.0041 | 0.0016 | 0.0082 | 0.013 | 0.0037 | 0.0097 | 0.0095 | 0.0024 | 0.0017 | 0.015 | 0.015 |
| Iron | 1.40 | 0.12 | 0.034 | 0.15 | 0.079 | 0.47 | 0.41 | 5.00 | 0.19 | 0.54 | 0.14 | 0.48 | 0.12 |
| Lead | 0.0040 | <0.001 | 0.017 | <0.001 | 0.010 | <0.001 | 0.0030 | 0.0020 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Mercury (inorganic) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Nickel | 0.0052 | 0.00070 | 0.096 | 0.011 | 0.0072 | 0.010 | 0.0019 | 0.0036 | 0.011 | 0.0016 | 0.0017 | 0.0016 | 0.0020 |
| Selenium | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | 0.0050 | <0.004 | <0.004 | 0.0050 | <0.004 |
| Zinc | 0.0082 | 0.0037 | 0.73 | 0.021 | 0.016 | 0.0039 | 0.0047 | 0.0046 | 0.0028 | 0.0013 | 0.0020 | <0.0004 | <0.0004 |
| Benzene | <0.001 | 0.0010 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.041 | <0.001 | 0.13 | 0.063 |
| Toluene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.095 | <0.001 | 0.29 | 0.15 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.065 | <0.001 | 0.12 | 0.087 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.16 | <0.001 | 0.24 | 0.15 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.15 | <0.001 | 0.17 | 0.11 |
| Xylenes (Total of m and p, o-xylenes) | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.31 | <0.002 | 0.41 | 0.26 |
| Methyl tert-butyl ether | | | | | <0.003 | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| TPH (C10 - C40) | | 0.07 | <0.01 | <0.01 | | 0.27 | 0.11 | | | | | | |
| Aliphatic C5 - C6 | <0.001 | | | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C6 - C8 | <0.001 | | | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | | | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | | | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C12 – C16 | <0.01 | | | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 – C21 | <0.01 | | | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 – C35 | <0.01 | | | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total TPH Aliphatic >EC10 - EC35 | <0.01 | | | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | <0.001 | | | | 0.56 | | 0.11 | 0.060 | <0.01 | 7.43 | <0.01 | 6.60 | 4.74 |
| Aromatic C7 - C8 | <0.001 | | | | <0.001 | | <0.001 | <0.001 | <0.001 | 0.042 | <0.001 | 0.13 | 0.064 |
| Aromatic C8 – C10 | <0.001 | | | | <0.001 | | <0.001 | <0.001 | <0.001 | 0.095 | <0.001 | 0.29 | 0.15 |
| Aromatic C10 – C12 | 0.090 | | | | <0.001 | | <0.001 | <0.001 | <0.001 | 0.42 | <0.001 | 0.55 | 0.37 |
| Aromatic C12 – C16 | 0.22 | | | | 0.15 | | 0.040 | 0.030 | <0.01 | 4.11 | <0.01 | 3.54 | 2.44 |
| Aromatic C16 – C21 | 0.13 | | | | 0.13 | | 0.040 | 0.030 | <0.01 | 2.07 | <0.01 | 1.57 | 1.12 |
| Aromatic C21 – C35 | 0.34 | | | | 0.12 | | 0.030 | <0.01 | <0.01 | 0.49 | <0.01 | 0.36 | 0.28 |
| Total TPH Aromatic >EC10 - EC35 | 0.78 | | | | 0.17 | | <0.01 | <0.01 | <0.01 | 0.19 | <0.01 | 0.16 | 0.31 |

| Analytical Parameter | GH3 | GH3 | GHA | GHB | GHB | Tar well | Primary purifiers | Brick structure | Oxide shed | Purifier catch box | Scrubbers | CWG plant |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | MW25-17 | MW25-22 | MW25-23B | MW25-25 | TP25-25 | MW25-18 | MW25-11 | MW25-09C | MW25-12 | TP25-20 | MW25-16A | MW25-20 |
| Depth (m bgl) | 0.80 | 1.40-4.00 | 4.70 | 2.40 | 1.40 | 3.45 | 0.20 | 8.40 | 1.00 | 1.80 | 2.00 | 1.00 |
| Date Sampled | 13/02/2025 | 18/02/2025 | 18/02/2025 | 19/02/2025 | 14/02/2025 | 14/02/2025 | 10/02/2025 | 07/02/2025 | 11/02/2025 | 12/02/2025 | 12/02/2025 | 17/02/2025 |
| Stratum | MGR | MGR | MGR | MGR | MGR | BC | MGR | MGR | MGR | MGR | MGR | MGR |
| pH | 8.00 | 10.50 | 7.20 | 8.10 | 7.90 | 8.40 | 7.80 | 8.10 | 7.60 | 9.70 | 9.00 | 8.10 |
| Sulphate as $SO_4$ | 285.00 | 140.00 | 25.00 | 1.76 | 2.59 | 23.90 | 653.00 | 43.90 | 1290.00 | 1760.00 | 219.00 | 33.90 |
| Total Suspended Solids | 10.60 | <2 | <2 | <2 | <2 | <2 | | <2 | 2.90 | 4.70 | <2 | <2 |
| Conductivity | 620.00 | 420.00 | 52.00 | 43.00 | 110.00 | 170.00 | 1200.00 | 290.00 | 1700.00 | 2100.00 | 340.00 | 140.00 |
| Cyanide (Total) (as CN) | 0.11 | 0.21 | 0.053 | <0.01 | <0.01 | 0.19 | 0.85 | 0.099 | 0.090 | 50.00 | 1.90 | 0.035 |
| Complexed cyanide | 0.11 | 0.21 | 0.053 | <0.01 | <0.01 | 0.19 | 0.85 | 0.099 | 0.091 | 50.26 | 1.95 | 0.035 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.087 | <0.01 | <0.01 |
| Thiocyanate | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 9.00 | 0.50 | <0.2 |
| Sulphur (Elemental) | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | I/S *I/S |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 26.00 | 32.00 | 5.90 | 0.69 | 0.95 | 8.70 | 1.90 | 7.80 | 16.00 | 69.00 | 69.00 | 3.30 |
| Ammonium as NH4 | 1.0 | 1.40 | 0.82 | 0.023 | 0.026 | 1.60 | 0.054 | 3.10 | 3.00 | 40.00 | 27.00 | <0.015 |
| Ammoniacal N (total) as N | 0.78 | 1.09 | 0.64 | 0.018 | 0.020 | 1.24 | 0.042 | 2.41 | 2.33 | 31.11 | 21.00 | <0.011667 |
| Un-ionised ammonia as nitrogen (NH3 as N) | 0.78 | 1.09 | 0.64 | 0.018 | 0.020 | 1.24 | 0.042 | 2.41 | 2.33 | 31.11 | 21.00 | <0.011667 |
| Dissolved Organic Carbon (DOC) | 11.00 | 16.00 | 5.90 | 4.90 | 48.00 | 51.00 | 7.10 | 26.00 | 8.00 | 27.00 | 40.00 | 6.90 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2-Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol (2,3,5-) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | 0.29 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | | | | | | | | | | | | |
| Phenols (Total) | <0.0035 | 0.29 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | 0.030 | 0.020 | 0.0030 | 0.0011 | 0.00016 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 2.15 | 0.43 | I/S |
| Acenaphthylene | 0.016 | 0.00022 | 0.0069 | 0.000030 | 0.000060 | <0.00001 | <0.00001 | 0.000150 | <0.00001 | <0.00001 | 0.0033 | I/S |
| Acenaphthene | 0.0036 | 0.0058 | 0.0061 | <0.00001 | 0.000030 | 0.00021 | 0.00054 | 0.00040 | 0.00017 | 0.0032 | 0.0053 | I/S |
| Fluorene | 0.0055 | 0.0025 | 0.016 | 0.000030 | 0.000050 | 0.00025 | 0.00020 | 0.000130 | 0.000070 | 0.0037 | 0.0095 | I/S |
| Phenanthrene | 0.0036 | 0.0053 | 0.011 | 0.000080 | 0.00016 | 0.00012 | 0.00060 | <0.00001 | 0.00011 | 0.0046 | 0.0066 | I/S |
| Anthracene | <0.00001 | 0.0013 | 0.0022 | <0.00001 | <0.00001 | 0.000040 | 0.00026 | <0.00001 | <0.00001 | 0.0012 | <0.00001 | I/S |
| Fluoranthene | 0.00053 | 0.00077 | 0.00039 | <0.00001 | 0.000060 | 0.000040 | 0.00047 | 0.000280 | <0.00001 | 0.00082 | 0.00056 | I/S |
| Pyrene | 0.00040 | 0.00040 | 0.00022 | <0.00001 | 0.000040 | <0.00001 | 0.00030 | <0.00001 | <0.00001 | 0.00039 | <0.00001 | I/S |
| Benzo[a]anthracene | 0.00010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | I/S |
| Chrysene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | I/S |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | I/S |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | I/S |
| Benzo[a]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | I/S |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | I/S |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | I/S |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | I/S |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | |
| PAH 16 Total | 0.060 | 0.036 | 0.045 | 0.0012 | 0.00055 | 0.00066 | 0.0024 | 0.00096 | 0.00036 | 2.16 | 0.46 | I/S *I/S |
| Arsenic | 0.010 | 0.0090 | <0.001 | 0.0030 | 0.0010 | 0.0040 | 0.0010 | 0.0030 | 0.0050 | <0.001 | 0.011 | 0.0040 |
| Cadmium | 0.000090 | <0.00008 | <0.00008 | <0.00008 | 0.00010 | <0.00008 | <0.00008 | <0.00008 | <0.00008 | <0.00008 | 0.00012 | <0.00008 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | <0.0004 | 0.0034 | 0.0012 | 0.0014 | 0.0012 | 0.0012 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | 0.0024 | 0.0014 |
| Copper | 0.0024 | 0.015 | 0.010 | 0.0020 | 0.0032 | 0.0038 | 0.0026 | 0.0058 | 0.0050 | <0.0007 | 0.013 | 0.0027 |
| Iron | 0.063 | 0.18 | 0.76 | 0.92 | 0.61 | 1.10 | 0.60 | 0.17 | 0.10 | 19.00 | 2.70 | 0.36 |
| Lead | <0.001 | 0.0010 | <0.001 | 0.0010 | <0.001 | 0.0010 | 0.0020 | <0.001 | 0.0020 | 0.0010 | 0.0040 | 0.010 |
| Mercury (inorganic) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Nickel | 0.0022 | 0.0023 | 0.0016 | 0.00090 | 0.0011 | 0.0015 | 0.0023 | 0.00150 | 0.00060 | 0.018 | 0.011 | 0.0024 |
| Selenium | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | 0.0060 | <0.004 | <0.004 | <0.004 | <0.004 |
| Zinc | 0.0012 | 0.0072 | 0.0092 | 0.0017 | 0.0089 | 0.0022 | <0.0004 | 0.0005 | 0.0066 | <0.0004 | 0.020 | 0.0079 |
| Benzene | 0.0030 | 0.0040 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.025 | 0.012 | <0.001 |
| Toluene | 0.0010 | 0.0040 | 0.0020 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.051 | <0.001 | <0.001 |
| Ethylbenzene | 0.0050 | 0.0010 | 0.020 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.060 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | 0.0020 | 0.0030 | 0.020 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.23 | <0.001 | <0.001 |
| Xylene (o-Xylene) | 0.0050 | 0.0030 | 0.029 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.16 | 0.0060 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | 0.007 | 0.006 | 0.049 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.39 | <0.007 | <0.002 |
| Methyl tert-butyl ether | <0.003 | <0.003 | <0.003 | | | <0.003 | | <0.003 | | <0.003 | <0.003 | |
| TPH (C10 - C40) | | | | 0.08 | 0.09 | | 0.04 | | <0.01 | | | 0.12 |
| Aliphatic C5 - C6 | <0.01 | <0.01 | <0.01 | | | <0.01 | | <0.01 | | 0.030 | <0.01 | |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | | | <0.001 | | <0.001 | | <0.001 | <0.001 | |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | | | <0.001 | | <0.001 | | 0.034 | <0.001 | |
| Aliphatic C10 – C12 | <0.001 | <0.001 | <0.001 | | | <0.001 | | <0.001 | | <0.001 | <0.001 | |
| Aliphatic C12 – C16 | <0.01 | <0.01 | <0.01 | | | <0.01 | | <0.01 | | <0.01 | <0.01 | |
| Aliphatic C16 – C21 | <0.01 | <0.01 | <0.01 | | | <0.01 | | <0.01 | | <0.01 | <0.01 | |
| Aliphatic C21 – C35 | <0.01 | <0.01 | <0.01 | | | <0.01 | | <0.01 | | <0.01 | <0.01 | |
| Total TPH Aliphatic >EC10 - EC35 | <0.01 | <0.01 | <0.01 | | | <0.01 | | <0.01 | | <0.01 | <0.01 | |
| Aromatic C5 - C7 | 0.77 | 1.08 | 1.42 | | | 0.13 | | 0.91 | | 5.22 | 3.74 | |
| Aromatic C7 - C8 | 0.0029 | 0.0041 | <0.001 | | | <0.001 | | <0.001 | | 0.031 | 0.013 | |
| Aromatic C8 – C10 | <0.001 | 0.0038 | 0.0025 | | | <0.001 | | <0.001 | | 0.052 | <0.001 | |
| Aromatic C10 – C12 | 0.015 | 0.011 | 0.076 | | | <0.001 | | <0.001 | | 0.47 | 0.010 | |
| Aromatic C12 – C16 | 0.17 | 0.44 | 0.63 | | | 0.060 | | 0.6 | | 3.46 | 2.14 | |
| Aromatic C16 – C21 | 0.32 | 0.22 | 0.54 | | | 0.080 | | 0.26 | | 0.79 | 0.80 | |
| Aromatic C21 – C35 | 0.12 | 0.18 | 0.060 | | | <0.01 | | 0.06 | | 0.21 | 0.46 | |
| Total TPH Aromatic >EC10 - EC35 | 0.14 | 0.22 | 0.11 | | | <0.01 | | <0.01 | | 0.21 | 0.32 | |

MGR = Made Ground
BC = Boulder Clay
WCM = Wolston Clay Member
WSG =Wolston Sand and Gravel

| NUMBER OF SAMPLES: | 40 | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Boiler house | Retort house | Retort house | Exhauster | Meter house | Benzol washer | Tank | Chimney | Former feature | Former feature | Former feature | - | - | - | - |
| | | | | | | | | | | | Sample Location | MW25-21 | MW25-27 | MW25-27 | MW25-29 | MW25-31A | VW25-18 | MW25-34 | TP25-18 | MW25-15C | VW25-17 | VW25-25 | MW25-05A | MW25-08 | MW25-19A | MW25-24 |
| | | | | | | | | | | | Depth (m bgl) | 0.30 | 0.50 | 3.30 | 0.30 | 1.30 | 1.00 | 1.30 | 2.50 | 0.70 | 0.25 | 0.20 | 1.50 | 1.00 | 1.30 | 0.40 |
| | | | | | | | | | | | Date Sampled | 17/02/2025 | 19/02/2025 | 19/02/2025 | 20/02/2025 | 21/02/2025 | 18/02/2025 | 25/02/2025 | 11/02/2025 | 25/02/2025 | 18/02/2025 | 21/02/2025 | 05/02/2025 | 06/02/2025 | 14/02/2025 | 18/02/2025 |
| | | | CRITERIA 1 | CRITERIA 2 | | CRITERIA 1 | CRITERIA 2 | | | | Stratum | MGR | MGR | BC | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR | MGR |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Environmental Quality Standards for freshwater surface waters** | **Combined Drinking Water Screening values** | **No. Analyses** | **Exceedances** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** | | | | | | | | | | | | | | | |
| pH | pH Units | N/A | 6-9 | 6.5<9.5 | 40 | 5 | 0 | 4.5 | 8.1 | 10.5 | MW25-22 | 8.90 | 7.50 | 8.80 | 8.50 | **9.70** | 8.00 | **9.70** | 7.70 | 7.70 | 7.50 | 8.20 | 7.80 | 7.80 | 8.30 | 8.10 |
| Sulphate as $SO_4$ | $mg.L^{-1}$ | 0.045 | | | 40 | | | 1.76 | 318.838 | 1810 | TP25-19 | 4.72 | 560.00 | 23.80 | 163.00 | 46.70 | 125.00 | 50.70 | 42.20 | 609.00 | 14.00 | 17.00 | 381.00 | 674.00 | 22.70 | 9.36 |
| Total Suspended Solids | $mg.L^{-1}$ | 2 | | | 39 | | | <2 | <3.9 | 17.7 | MW25-30B | 4.50 | <2 | 15.10 | 4.30 | 4.30 | <2 | 3.60 | <2 | <2 | 11.40 | <2 | <2 | <2 | 6.50 | <2 |
| Conductivity | $\mu S.cm^{-1}$ | 10 | | 2500 | 40 | | 0 | 43 | 562.6 | 2200 | TP25-22 | 100.00 | 1100.00 | 270.00 | 410.00 | 170.00 | 390.00 | 180.00 | 160.00 | 1100.00 | 140.00 | 180.00 | 880.00 | 1300.00 | 210.00 | 120.00 |
| Cyanide (Total) (as CN) | $mg.L^{-1}$ | 0.01 | | 0.05 | 40 | | 27 | <0.01 | <1.51 | 50 | TP25-20 | <0.01 | 0.042 | <0.01 | **0.057** | **0.031** | <0.01 | **0.54** | <0.01 | **0.45** | 0.027 | **0.21** | **0.22** | **0.80** | 0.016 | **0.066** |
| Complexed cyanide | $mg.L^{-1}$ | 0.01 | | | 40 | | | <0.01 | <1.51 | 50.26 | TP25-20 | <0.01 | 0.042 | <0.01 | 0.057 | 0.081 | <0.01 | 0.54 | <0.01 | 0.45 | 0.027 | 0.21 | 0.22 | 0.79 | 0.016 | 0.066 |
| Easily liberatable cyanide | $mg.L^{-1}$ | 0.01 | 0.001 | 0.05 | 40 | 2 | 1 | <0.01 | <0.01 | 0.087 | TP25-20 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | **0.011** | <0.01 | <0.01 |
| Thiocyanate | $mg.L^{-1}$ | 0.2 | | | 40 | | | <0.2 | <0.5 | 9 | TP25-20 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.40 | 0.40 | <0.2 | <0.2 |
| Sulphur (Elemental) | $mg.L^{-1}$ | 20 | | | 40 | | | <20 | <19.5 | <20 | n/a | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| Sulphide | $mg.L^{-1}$ | 0.005 | | | 40 | | | <0.005 | <0.005 | <0.005 | n/a | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | $mg.L^{-1}$ | 0.15 | 250 | 250 | 40 | 0 | 0 | 0.39 | 15.42 | 69 | TP25-20 | 5.50 | 9.00 | 19.00 | 1.70 | 2.00 | 27.00 | 3.70 | 15.00 | 7.30 | 19.00 | 14.00 | 43.00 | 50.00 | 10.00 | 3.90 |
| Ammonium as NH4 | $mg.L^{-1}$ | 0.015 | | 0.5 | 40 | | 22 | <0.015 | <4.072 | 40 | TP25-20 | 0.086 | 0.10 | **37.00** | <0.015 | **0.62** | **4.20** | 0.037 | **1.80** | 0.021 | 0.36 | <0.015 | **5.40** | **8.00** | 0.044 | 0.29 |
| Ammoniacal N (total) as N | $mg.L^{-1}$ | 0.011667 | 1.1 | | 40 | 17 | | <0.011667 | <3.166813 | 31.112 | TP25-20 | 0.067 | 0.078 | **28.78** | <0.011667 | 0.48 | **3.27** | 0.029 | **1.40** | 0.016 | 0.28 | <0.011667 | **4.20** | **6.22** | 0.034 | 0.23 |
| Un-ionised ammonia as nitrogen (NH3 as N) | $mg.L^{-1}$ | 0.011667 | | | 40 | | | <0.011667 | <3.166813 | 31.112 | TP25-20 | 0.067 | 0.078 | 28.78 | <0.011667 | 0.48 | 3.27 | 0.029 | 1.40 | 0.016 | 0.28 | <0.011667 | 4.20 | 6.22 | 0.034 | 0.23 |
| Dissolved Organic Carbon (DOC) | $mg.L^{-1}$ | 0.1 | | | 40 | | | 3.7 | 18.3 | 100 | VW25-21 | 18.00 | 4.80 | 22.00 | 4.60 | 4.80 | 6.20 | 4.20 | 24.00 | 4.60 | 11.00 | 17.00 | 15.00 | 10.00 | 40.00 | 15.00 |
| Catechol | $mg.L^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | $mg.L^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | $mg.L^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.1259 | 5.015 | MW25-27 | <0.0005 | <0.0005 | 5.02 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | $mg.L^{-1}$ | 0.0005 | 0.1 | | 40 | 1 | | <0.0005 | <0.0585 | 2.322 | MW25-27 | <0.0005 | <0.0005 | **2.32** | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 2-Isopropylphenol | $mg.L^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol (2,3,5-) | $mg.L^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | $mg.L^{-1}$ | 0.0005 | | | 40 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | $mg.L^{-1}$ | 0.0005 | 0.0077 | | 40 | 1 | | <0.0005 | <0.0078 | 0.2918 | MW25-22 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | $mg.L^{-1}$ | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phenols (Total) | $mg.L^{-1}$ | 0.0035 | | | 40 | | | <0.0035 | <0.1931 | 7.3 | MW25-27 | <0.0035 | <0.0035 | 7.30 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | $mg.L^{-1}$ | 0.00001 | 0.002 | | 40 | 13 | | <0.00001 | <0.16254 | 2.1455 | TP25-20 | 0.00032 | **0.0024** | U/S | <0.00001 | 0.00046 | **0.0085** | **0.11** | **0.71** | <0.00001 | 0.00028 | 0.00012 | **0.13** | 0.0012 | 0.00014 | 0.00031 |
| Acenaphthylene | $mg.L^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00947 | 0.12106 | MW25-10 | 0.00011 | 0.000060 | 0.079 | <0.00001 | <0.00001 | 0.0049 | 0.0064 | 0.013 | <0.00001 | 0.000070 | <0.00001 | 0.00080 | 0.00021 | 0.000020 | <0.00001 |
| Acenaphthene | $mg.L^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.0071 | 0.17546 | TP25-18 | 0.000070 | 0.000080 | 0.028 | <0.00001 | <0.00001 | 0.0032 | 0.0012 | 0.18 | <0.00001 | 0.000070 | <0.00001 | 0.0017 | 0.00045 | 0.000020 | 0.000060 |
| Fluorene | $mg.L^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00515 | 0.06652 | TP25-18 | 0.00014 | 0.000050 | 0.015 | <0.00001 | <0.00001 | 0.0042 | 0.0018 | 0.067 | 0.000050 | 0.000080 | 0.000050 | 0.0020 | 0.00056 | 0.000030 | 0.000060 |
| Phenanthrene | $mg.L^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00342 | 0.03357 | TP25-18 | 0.00027 | 0.00013 | 0.013 | <0.00001 | <0.00001 | 0.0025 | 0.0015 | 0.034 | <0.00001 | 0.00021 | 0.00014 | 0.0020 | 0.0011 | 0.00016 | 0.00012 |
| Anthracene | $mg.L^{-1}$ | 0.00001 | 0.0001 | | 40 | 9 | | <0.00001 | <0.00049 | 0.00685 | MW25-10 | 0.000060 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | **0.00065** | <0.00001 | **0.0063** | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000030 | 0.000030 |
| Fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.0000063 | | 40 | 26 | | **0.00013** | **0.000050** | **0.0052** | MW25-27 | <0.00001 | <0.00001 | **0.00056** | **0.00026** | **0.0013** | <0.00001 | **0.000090** | <0.00001 | **0.00050** | **0.00020** | **0.00014** | **0.00010** |
| Pyrene | $mg.L^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00035 | 0.00329 | MW25-27 | 0.00011 | <0.00001 | 0.0033 | <0.00001 | <0.00001 | 0.00036 | 0.00020 | 0.0015 | <0.00001 | 0.000080 | <0.00001 | 0.00032 | 0.00014 | 0.00013 | 0.00010 |
| Benzo[a]anthracene | $mg.L^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00005 | 0.0008 | MW25-30B | <0.00001 | <0.00001 | 0.00059 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | $mg.L^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00004 | 0.0007 | MW25-30B | <0.00001 | <0.00001 | 0.00049 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000060 | <0.00001 |
| Benzo[b]fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.000017 | | 40 | 2 | | <0.00001 | <0.00003 | 0.00053 | MW25-30B | <0.00001 | <0.00001 | **0.00026** | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.000017 | | 40 | 2 | | <0.00001 | <0.00002 | 0.00021 | MW25-30B | <0.00001 | <0.00001 | **0.00011** | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | $mg.L^{-1}$ | 0.00001 | 0.00000017 | 0.00001 | 40 | 1 | 1 | <0.00001 | <0.00002 | 0.00061 | MW25-30B | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00002 | 0.00017 | MW25-30B | <0.00001 | <0.00001 | 0.000060 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000080 |
| Dibenz(a,h)anthracene | $mg.L^{-1}$ | 0.00001 | | | 40 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | $mg.L^{-1}$ | 0.00001 | 0.0000082 | | 40 | 3 | | <0.00001 | <0.00002 | 0.00013 | MW25-24 | <0.00001 | <0.00001 | **0.000090** | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | **0.00013** |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00002 | | | 40 | | | <0.00002 | <0.00005 | 0.00074 | n/a | <0.00002 | <0.00002 | 0.00037 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00004 | | 0.0001 | 40 | | 0 | <0.00004 | <0.00008 | <0.001 | MW25-30B | <0.00004 | <0.00004 | <0.00027 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00023 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00002 | | | 40 | | | <0.00002 | <0.00004 | 0.00022 | n/a | <0.00002 | <0.00002 | 0.00015 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00021 |
| PAH 16 Total | $mg.L^{-1}$ | 0.00016 | | | 40 | | | <0.00016 | <0.1855 | 2.1595 | TP25-20 | 0.0012 | 0.0027 | U/S | <0.00016 | 0.00046 | 0.025 | 0.12 | 1.01 | <0.00016 | 0.00088 | 0.00032 | 0.14 | 0.0038 | 0.00082 | 0.0010 |
| Arsenic | $mg.L^{-1}$ | 0.001 | 0.05 | 0.01 | 40 | 1 | 8 | <0.001 | <0.008 | 0.055 | MW25-29 | 0.0070 | 0.0030 | 0.0050 | 0.055 | 0.0060 | <0.001 | 0.0050 | 0.0040 | 0.0020 | <0.001 | **0.022** | **0.013** | 0.0050 | 0.0020 | 0.0050 |
| Cadmium | $mg.L^{-1}$ | 0.00008 | 0.00025 | 0.005 | 40 | 1 | 0 | <0.00008 | <0.00017 | 0.00354 | MW25-07 | <0.00008 | <0.00008 | <0.00008 | <0.00008 | <0.00008 | <0.00008 | 0.00013 | <0.00008 | <0.00008 | <0.00008 | <0.00008 | <0.00008 | <0.00008 | <0.00008 | <0.00008 |
| Chromium (VI) | $mg.L^{-1}$ | 0.005 | 0.0034 | | 40 | 1 | | <0.005 | <0.005 | 0.007 | MW25-27 | U/S [%/S #] | <0.005 | **0.0070** | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | $mg.L^{-1}$ | 0.0004 | 0.0034 | 0.05 | 40 | 5 | 0 | <0.0004 | <0.0016 | 0.0072 | MW25-27 | **0.0039** | 0.00070 | **0.0072** | 0.0015 | 0.0020 | 0.00070 | 0.0022 | 0.0020 | 0.0015 | **0.0036** | 0.0029 | <0.0004 | <0.0004 | **0.0035** | 0.0023 |
| Copper | $mg.L^{-1}$ | 0.0007 | 0.001 | 2 | 40 | 36 | 0 | <0.0007 | <0.0069 | 0.0278 | MW25-24 | **0.013** | **0.0015** | **0.012** | <0.0007 | **0.0020** | **0.011** | **0.0053** | **0.0054** | **0.013** | **0.0099** | **0.0089** | 0.00080 | **0.0020** | **0.0038** | **0.028** |
| Iron | $mg.L^{-1}$ | 0.004 | 1 | 0.2 | 40 | 10 | 26 | 0.034 | 1.282 | 19 | TP25-20 | 1.90 | 0.094 | 5.70 | 0.046 | **0.42** | **0.56** | **0.56** | **0.93** | **0.27** | 1.30 | **0.72** | 0.17 | **0.42** | 1.20 | 1.30 |
| Lead | $mg.L^{-1}$ | 0.001 | 0.0012 | 0.01 | 40 | 19 | 2 | <0.001 | <0.005 | 0.11 | MW25-19A | **0.0030** | **0.0030** | **0.0040** | <0.001 | **0.0030** | **0.0020** | <0.001 | **0.0020** | **0.0020** | <0.001 | **0.0050** | <0.001 | <0.001 | 0.11 | **0.010** |
| Mercury (inorganic) | $mg.L^{-1}$ | 0.0005 | 0.00007 | 0.001 | 40 | 1 | 1 | <0.0005 | <0.0005 | 0.00159 | MW25-36 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Nickel | $mg.L^{-1}$ | 0.0003 | 0.004 | 0.02 | 40 | 11 | 1 | <0.0003 | <0.006 | 0.0961 | MW25-07 | 0.0018 | 0.00070 | **0.0082** | <0.0003 | 0.00030 | 0.0014 | <0.0003 | 0.0018 | **0.0048** | 0.0018 | 0.0013 | **0.011** | 0.0017 | 0.0020 | 0.0027 |
| Selenium | $mg.L^{-1}$ | 0.004 | | 0.01 | 40 | | 0 | <0.004 | <0.004 | 0.007 | MW25-15C | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | 0.0070 | <0.004 | <0.004 | <0.004 | 0.0050 | <0.004 | <0.004 |
| Zinc | $mg.L^{-1}$ | 0.0004 | 0.0123 | | 40 | 7 | | <0.0004 | <0.0246 | 0.7297 | MW25-07 | 0.0084 | 0.0031 | **0.017** | <0.0004 | 0.0018 | 0.0057 | 0.0038 | 0.0076 | 0.011 | 0.0074 | **0.027** | 0.0026 | 0.0016 | 0.0053 | **0.015** |
| Benzene | $mg.L^{-1}$ | 0.001 | 0.01 | 0.001 | 40 | 6 | 9 | <0.001 | <0.009 | 0.13 | MW25-10 | <0.001 | <0.001 | 0.045 | <0.001 | <0.001 | **0.0050** | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | $mg.L^{-1}$ | 0.001 | 0.074 | 0.7 | 40 | 3 | 0 | <0.001 | <0.017 | 0.29 | MW25-10 | <0.001 | <0.001 | 0.062 | <0.001 | <0.001 | 0.0020 | 0.0010 | 0.0020 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | $mg.L^{-1}$ | 0.001 | 0.02 | 0.3 | 40 | 6 | 0 | <0.001 | <0.013 | 0.12 | MW25-10 | <0.001 | <0.001 | **0.052** | <0.001 | <0.001 | **0.057** | <0.001 | 0.0040 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | $mg.L^{-1}$ | 0.001 | | | 40 | | | <0.001 | <0.027 | 0.25 | MW25-27 | <0.001 | <0.001 | 0.25 | <0.001 | <0.001 | 0.0020 | 0.0010 | 0.0020 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | $mg.L^{-1}$ | 0.001 | | | 40 | | | <0.001 | <0.02 | 0.17 | MW25-10 | <0.001 | <0.001 | 0.14 | <0.001 | <0.001 | 0.0060 | <0.001 | 0.0040 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | $mg.L^{-1}$ | 0.002 | 0.03 | 0.5 | 40 | 6 | 0 | <0.002 | <0.048 | 0.41 | n/a | <0.002 | <0.002 | **0.39** | <0.002 | <0.002 | 0.008 | <0.002 | 0.006 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Methyl tert-butyl ether | $mg.L^{-1}$ | 0.003 | | | 22 | | | <0.003 | <0.003 | <0.003 | n/a | | | <0.003 | | <0.003 | <0.003 | <0.003 | <0.003 | | | | <0.003 | <0.003 | | |
| TPH (C10 - C40) | $mg.L^{-1}$ | 0.01 | | | 18 | | | <0.01 | <0.07 | 0.27 | TP25-22 | 0.13 | 0.07 | | <0.01 | | | | | <0.01 | 0.07 | <0.01 | | | 0.07 | 0.05 |
| Aliphatic C5 - C6 | $mg.L^{-1}$ | 0.001 | | 15 | 23 | | 0 | <0.001 | <0.012 | 0.04 | MW25-05A | | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | | | | 0.040 | <0.01 | | |
| Aliphatic C6 - C8 | $mg.L^{-1}$ | 0.001 | | 15 | 23 | | 0 | <0.001 | <0.001 | <0.001 | n/a | | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | | | | <0.001 | <0.001 | | |
| Aliphatic C8 – C10 | $mg.L^{-1}$ | 0.001 | | 0.3 | 23 | | 0 | <0.001 | <0.002 | 0.034 | TP25-20 | | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | | | | <0.001 | <0.001 | | |
| Aliphatic C10 – C12 | $mg.L^{-1}$ | 0.01 | | 0.3 | 23 | | 0 | <0.001 | <0 | <0.01 | MW25-01 | | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | | | | <0.001 | <0.001 | | |
| Aliphatic C12 – C16 | $mg.L^{-1}$ | 0.01 | | | 23 | | | <0.01 | <0.01 | 0.03 | MW25-05A | | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | | | | 0.030 | <0.01 | | |
| Aliphatic C16 – C21 | $mg.L^{-1}$ | 0.01 | | | 23 | | | <0.01 | <0.01 | 0.01 | MW25-05A | | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | | | | 0.010 | <0.01 | | |
| Aliphatic C21 – C35 | $mg.L^{-1}$ | 0.01 | | | 23 | | | <0.01 | <0.01 | <0.01 | n/a | | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | | | | <0.01 | <0.01 | | |
| Total TPH Aliphatic >EC10 - EC35 | $mg.L^{-1}$ | 0.01 | | | 23 | | | <0.01 | <0.01 | <0.01 | n/a | | | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | | | | <0.01 | <0.01 | | |
| Aromatic C5 - C7 | $mg.L^{-1}$ | 0.001 | | | 23 | | | <0.001 | <2.38 | 13.1 | MW25-27 | | | 13.10 | | <0.01 | 1.21 | 0.54 | 4.50 | | | | 2.57 | <0.01 | | |
| Aromatic C7 - C8 | $mg.L^{-1}$ | 0.001 | | | 23 | | | <0.001 | <0.015 | 0.13 | MW25-10 | | | 0.045 | | <0.001 | 0.0058 | <0.001 | 0.0014 | | | | <0.001 | <0.001 | | |
| Aromatic C8 – C10 | $mg.L^{-1}$ | 0.001 | | | 23 | | | <0.001 | <0.029 | 0.29 | MW25-10 | | | 0.064 | | <0.001 | 0.0038 | 0.0013 | 0.0024 | | | | <0.001 | <0.001 | | |
| Aromatic C10 – C12 | $mg.L^{-1}$ | 0.01 | | 0.09 | 23 | | 6 | <0.001 | <0.11 | 0.55 | MW25-10 | | | **0.48** | | <0.001 | **0.099** | 0.0029 | 0.013 | | | | <0.001 | <0.001 | | |
| Aromatic C12 – C16 | $mg.L^{-1}$ | 0.01 | | 0.09 | 23 | | 16 | <0.01 | <1.42 | 10.1 | MW25-27 | | | **10.10** | | <0.01 | **0.49** | **0.27** | **1.81** | | | | **1.98** | <0.01 | | |
| Aromatic C16 – C21 | $mg.L^{-1}$ | 0.01 | | 0.09 | 23 | | 16 | <0.01 | <0.55 | 2.07 | MW25-13A | | | **1.85** | | <0.01 | **0.27** | **0.17** | **1.92** | | | | **0.36** | <0.01 | | |
| Aromatic C21 – C35 | $mg.L^{-1}$ | 0.01 | | 0.09 | 23 | | 13 | <0.01 | <0.17 | 0.5 | TP25-18 | | | **0.25** | | <0.01 | **0.16** | 0.090 | **0.50** | | | | **0.11** | <0.01 | | |
| Total TPH Aromatic >EC10 - EC35 | $mg.L^{-1}$ | 0.01 | | | 23 | | | <0.01 | <0.15 | 0.78 | MW25-01 | | | 0.24 | | <0.01 | 0.19 | <0.01 | 0.25 | | | | 0.11 | <0.01 | | |

MGR = Made Ground
BC = Boulder Clay
WCM = Wolston Clay Member
WSG =Wolston Sand and Gravel

| NUMBER OF SAMPLES: | 1 | | | | | | | | | | Sample Location | MW25-28A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Depth (m bgl) | 0.60 |
| | | | | | | | | | | | Date Sampled | 20/02/2025 |
| | | | CRITERIA 1 | CRITERIA 2 | | CRITERIA 1 | CRITERIA 2 | | | | Stratum | MGR |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Environmental Quality Standards for freshwater surface waters** | **Combined Drinking Water Screening values** | **No. Analyses** | **Exceedances** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** | |
| pH | pH Units | N/A | | | 1 | | | 8.4 | 8.4 | 8.4 | MW25-28A | 8.40 |
| Sulphate as $SO_4$ | $mg.L^{-1}$ | 0.045 | | | 1 | | | 21.8 | 21.8 | 21.8 | MW25-28A | 21.80 |
| Total Suspended Solids | $mg.L^{-1}$ | 2 | | | 1 | | | 11.2 | 11.2 | 11.2 | MW25-28A | 11.20 |
| Conductivity | $\mu S.cm^{-1}$ | 10 | | 2500 | 1 | | 0 | 360 | 360 | 360 | MW25-28A | 360.00 |
| Cyanide (Total) (as CN) | $mg.L^{-1}$ | 0.01 | | 0.05 | 1 | | 0 | 0.021 | 0.02 | 0.021 | MW25-28A | 0.021 |
| Complexed cyanide | $mg.L^{-1}$ | 0.01 | | | 1 | | | 0.0215 | 0.02 | 0.0215 | MW25-28A | 0.022 |
| Easily liberatable cyanide | $mg.L^{-1}$ | 0.01 | 0.001 | 0.05 | 1 | 0 | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 |
| Thiocyanate | $mg.L^{-1}$ | 0.2 | | | 1 | | | <0.2 | <0.2 | <0.2 | n/a | <0.2 |
| Sulphur (Elemental) | $mg.L^{-1}$ | 20 | | | 1 | | | <20 | <20 | <20 | n/a | <20 |
| Sulphide | $mg.L^{-1}$ | 0.005 | | | 1 | | | <0.005 | <0.005 | <0.005 | n/a | <0.005 |
| Chloride | $mg.L^{-1}$ | 0.15 | 250 | 250 | 1 | 0 | 0 | 36 | 36 | 36 | MW25-28A | 36.00 |
| Ammoniacal Nitrogen as $NH_4^+$ / Ammonium as NH4 | $mg.L^{-1}$ | 0.015 | | 0.5 | 1 | | 1 | 0.54 | 0.54 | 0.54 | MW25-28A | **0.54** |
| Ammoniacal N (total) as N | $mg.L^{-1}$ | 0.011667 | 1.1 | | 1 | 0 | | 0.420012 | 0.420012 | <0.420012 | n/a | 0.42 |
| Un-ionised ammonia as nitrogen (NH3 as N) | $mg.L^{-1}$ | 0.011667 | | | 1 | | | 0.420012 | 0.420012 | <0.420012 | n/a | 0.42 |
| Dissolved Organic Carbon (DOC) | $mg.L^{-1}$ | 0.1 | | | 1 | | | 37 | 37 | 37 | MW25-28A | 37.00 |
| Catechol | $mg.L^{-1}$ | 0.0005 | | | 1 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 |
| Resorcinol | $mg.L^{-1}$ | 0.0005 | | | 1 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 |
| Ethylphenol & Dimethylphenol | $mg.L^{-1}$ | 0.0005 | | | 1 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 |
| Cresols (Total) | $mg.L^{-1}$ | 0.0005 | 0.1 | | 1 | 0 | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 |
| 2-Isopropylphenol | $mg.L^{-1}$ | 0.0005 | | | 1 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 |
| Trimethylphenol (2,3,5-) | $mg.L^{-1}$ | 0.0005 | | | 1 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 |
| Naphthols | $mg.L^{-1}$ | 0.0005 | | | 1 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 |
| Phenol | $mg.L^{-1}$ | 0.0005 | 0.0077 | | 1 | 0 | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 |
| Phenols (Total) | $mg.L^{-1}$ | 0.0035 | | | 1 | | | <0.0035 | <0.0035 | <0.0035 | n/a | <0.0035 |
| Naphthalene | $mg.L^{-1}$ | 0.00001 | 0.002 | | 1 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Acenaphthylene | $mg.L^{-1}$ | 0.00001 | | | 1 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Acenaphthene | $mg.L^{-1}$ | 0.00001 | | | 1 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Fluorene | $mg.L^{-1}$ | 0.00001 | | | 1 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Phenanthrene | $mg.L^{-1}$ | 0.00001 | | | 1 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Anthracene | $mg.L^{-1}$ | 0.00001 | 0.0001 | | 1 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.0000063 | | 1 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Pyrene | $mg.L^{-1}$ | 0.00001 | | | 1 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Benzo[a]anthracene | $mg.L^{-1}$ | 0.00001 | | | 1 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Chrysene | $mg.L^{-1}$ | 0.00001 | | | 1 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Benzo[b]fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.000017 | | 1 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.000017 | | 1 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Benzo[a]pyrene | $mg.L^{-1}$ | 0.00001 | 0.00000017 | 0.00001 | 1 | 0 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00001 | | | 1 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Dibenz(a,h)anthracene | $mg.L^{-1}$ | 0.00001 | | | 1 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Benzo[ghi]perylene | $mg.L^{-1}$ | 0.00001 | 0.0000082 | | 1 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00002 | | | 1 | | | <0.00002 | <0.00002 | <0.00002 | n/a | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00004 | | 0.0001 | 1 | | 0 | <0.00004 | <0.00004 | <0.00004 | n/a | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00002 | | | 1 | | | <0.00002 | <0.00002 | <0.00002 | n/a | <0.00002 |
| PAH 16 Total | $mg.L^{-1}$ | 0.00016 | | | 1 | | | <0.00016 | <0.00016 | <0.00016 | n/a | <0.00016 |
| Arsenic | $mg.L^{-1}$ | 0.001 | 0.05 | 0.01 | 1 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 |
| Cadmium | $mg.L^{-1}$ | 0.00008 | <0.00008 | 0.005 | 1 | 0 | 0 | <0.00008 | <0.00008 | <0.00008 | n/a | <0.00008 |
| Chromium (VI) | $mg.L^{-1}$ | 0.005 | 0.0034 | | 1 | 0 | | <0.005 | <0.005 | <0.005 | n/a | <0.005 |
| Chromium (Total) | $mg.L^{-1}$ | 0.0004 | 0.0034 | 0.05 | 1 | 0 | 0 | 0.0013 | 0.0013 | 0.0013 | MW25-28A | 0.0013 |
| Copper | $mg.L^{-1}$ | 0.0007 | 0.001 | 2 | 1 | 1 | 0 | 0.011 | 0.011 | 0.011 | MW25-28A | **0.011** |
| Iron | $mg.L^{-1}$ | 0.004 | 1 | 0.2 | 1 | 1 | 1 | 1.4 | 1.4 | 1.4 | MW25-28A | 1.40 |
| Lead | $mg.L^{-1}$ | 0.001 | 0.0012 | 0.01 | 1 | 1 | 1 | 0.015 | 0.015 | 0.015 | MW25-28A | 0.015 |
| Mercury (inorganic) | $mg.L^{-1}$ | 0.0005 | 0.00007 | 0.001 | 1 | 0 | 0 | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 |
| Nickel | $mg.L^{-1}$ | 0.0003 | 0.004 | 0.02 | 1 | 0 | 0 | 0.004 | 0.004 | 0.004 | MW25-28A | 0.0040 |
| Selenium | $mg.L^{-1}$ | 0.004 | | 0.01 | 1 | | 0 | <0.004 | <0.004 | <0.004 | n/a | <0.004 |
| Zinc | $mg.L^{-1}$ | 0.0004 | 0.0123 | | 1 | 0 | | 0.0031 | 0.0031 | 0.0031 | MW25-28A | 0.0031 |
| Benzene | $mg.L^{-1}$ | 0.001 | 0.01 | 0.001 | 1 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 |
| Toluene | $mg.L^{-1}$ | 0.001 | 0.074 | 0.7 | 1 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 |
| Ethylbenzene | $mg.L^{-1}$ | 0.001 | 0.02 | 0.3 | 1 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 |
| Xylene (p & m-Xylene) | $mg.L^{-1}$ | 0.001 | | | 1 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 |
| Xylene (o-Xylene) | $mg.L^{-1}$ | 0.001 | | | 1 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | $mg.L^{-1}$ | 0.002 | 0.03 | 0.5 | 1 | 0 | 0 | <0.002 | <0.002 | <0.002 | n/a | <0.002 |
| Methyl tert-butyl ether | $mg.L^{-1}$ | 0.003 | | | 1 | | | <0.003 | <0.003 | <0.003 | n/a | <0.003 |
| Aliphatic C5 - C6 | $mg.L^{-1}$ | 0.001 | | 15 | 1 | | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 |
| Aliphatic C6 - C8 | $mg.L^{-1}$ | 0.001 | | 15 | 1 | | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 |
| Aliphatic C8 – C10 | $mg.L^{-1}$ | 0.001 | | 0.3 | 1 | | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 |
| Aliphatic C10 – C12 | $mg.L^{-1}$ | 0.01 | | 0.3 | 1 | | 0 | <0.001 | <0 | <0.001 | n/a | <0.001 |
| Aliphatic C12 – C16 | $mg.L^{-1}$ | 0.01 | | | 1 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 |
| Aliphatic C16 – C21 | $mg.L^{-1}$ | 0.01 | | | 1 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 |
| Aliphatic C21 – C35 | $mg.L^{-1}$ | 0.01 | | | 1 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 |
| Total TPH Aliphatic >EC10 - EC35 | $mg.L^{-1}$ | 0.01 | | | 1 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 |
| Aromatic C5 - C7 | $mg.L^{-1}$ | 0.001 | | | 1 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 |
| Aromatic C7 - C8 | $mg.L^{-1}$ | 0.001 | | | 1 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 |
| Aromatic C8 – C10 | $mg.L^{-1}$ | 0.001 | | | 1 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 |
| Aromatic C10 – C12 | $mg.L^{-1}$ | 0.01 | | 0.09 | 1 | | 0 | <0.001 | <0 | <0.001 | n/a | <0.001 |
| Aromatic C12 – C16 | $mg.L^{-1}$ | 0.01 | | 0.09 | 1 | | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 |
| Aromatic C16 – C21 | $mg.L^{-1}$ | 0.01 | | 0.09 | 1 | | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 |
| Aromatic C21 – C35 | $mg.L^{-1}$ | 0.01 | | 0.09 | 1 | | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 |
| Total TPH Aromatic >EC10 - EC35 | $mg.L^{-1}$ | 0.01 | | | 1 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 |

MGR = Made Ground

| NUMBER OF SAMPLES: 15 | | | | | | | | | | Sample Location | MW25-02 | MW25-02 | MW25-02 | MW25-02-DUP | MW25-02-DUP | MW25-03 | MW25-03 | MW25-03 | MW25-03-DUP | MW25-03-DUP | MW25-06 | MW25-06 | MW25-06 | MW25-06-DUP | MW25-06-DUP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Monitoring Round No. | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 3 | 1 | 3 | 1 | 2 | 3 | 2 | 3 |
| | | | | | | | | | | Date Sampled | 17/03/2025 | 07/04/2025 | 28/04/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 28/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 07/04/2025 | 28/04/2025 |
| | | | CRITERIA 1 | | CRITERIA 1 | | | | | Stratum | Wolston Clay Member | | | | | Wolston Clay Member | | | | | Wolston Clay Member | | | | |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Environmental Quality Standards for freshwater surface waters** | **No. Analyses** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** | | | | | | | | | | | | | | | | |
| pH | pH Units | N/A | 6-9 | 15 | 0 | 7 | 7.3 | 7.500 | MW25-02 | | 7.50 | 7.40 | 7.30 | 7.40 | 7.30 | 7.30 | 7.30 | 7.00 | 7.30 | 7.10 | 7.30 | 7.30 | 7.00 | 7.20 | 7.20 |
| Conductivity | µS.cm$^{-1}$ | 10 | | 15 | | 810 | 1112 | 1500 | MW25-03 | | 840.00 | 810.00 | 870.00 | 810.00 | 850.00 | 1200.00 | 1400.00 | 1500.00 | 1200.00 | 1500.00 | 1100.00 | 1100.00 | 1200.00 | 1100.00 | 1200.00 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Complexed cyanide | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 | 0.001 | 15 | 0 | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | mg.L$^{-1}$ | 0.2 | | 15 | | <0.2 | <0.2 | <0.2 | n/a | | <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 |
| Sulphate | mg.L$^{-1}$ | 0.045 | 400 | 15 | 0 | 67.4 | 173.267 | 238 | MW25-03 | | 67.40 | 68.80 | 75.20 | 69.00 | 82.60 | 220.00 | 229.00 | 238.00 | 217.00 | 238.00 | 208.00 | 213.00 | 228.00 | 220.00 | 225.00 |
| Sulphur (Elemental) | mg.L$^{-1}$ | 0.02 | | 10 | | <0.02 | <0.02 | <0.02 | n/a | | <0.02 | | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | <0.02 | <0.02 | | <0.02 | | <0.02 |
| Sulphide | mg.L$^{-1}$ | 0.005 | | 15 | | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | mg.L$^{-1}$ | 0.15 | 250 | 15 | 0 | 61 | 108.27 | 200 | MW25-03-DUP | | 93.00 | 90.00 | 92.00 | 89.00 | 92.00 | 140.00 | 180.00 | 190.00 | 140.00 | 200.00 | 61.00 | 63.00 | 66.00 | 65.00 | 63.00 |
| Ammonium as NH4 | mg.L$^{-1}$ | 0.015 | | 15 | | 0.041 | 0.16 | 0.28 | MW25-02-DUP | | 0.20 | 0.18 | 0.23 | 0.21 | 0.28 | 0.24 | 0.15 | 0.22 | 0.21 | 0.041 | 0.068 | 0.078 | 0.12 | 0.073 | 0.10 |
| Ammoniacal N (total) as N | mg.L$^{-1}$ | 0.011667 | 1.1 | 15 | 0 | 0.0318898 | 0.124448 | 0.217784 | MW25-02-DUP | | 0.16 | 0.14 | 0.18 | 0.16 | 0.22 | 0.19 | 0.12 | 0.17 | 0.16 | 0.032 | 0.053 | 0.061 | 0.093 | 0.057 | 0.078 |
| Un-ionised ammonia as nitrogen (NH3 as N) | mg.L$^{-1}$ | 0.011667 | | 15 | | 0.0318898 | 0.124448 | 0.217784 | MW25-02-DUP | | 0.16 | 0.14 | 0.18 | 0.16 | 0.22 | 0.19 | 0.12 | 0.17 | 0.16 | 0.032 | 0.053 | 0.061 | 0.093 | 0.057 | 0.078 |
| Total Organic Carbon (TOC) | mg.L$^{-1}$ | 0.1 | | 15 | | 1.8 | 2.4 | 5.24 | MW25-03 | | 2.22 | 2.14 | 2.15 | 2.67 | 2.05 | 5.24 | 2.39 | 2.22 | 2.42 | 2.11 | 2.28 | 2.19 | 1.85 | 2.06 | 1.80 |
| Alkalinity as CaCO3 | mg.L$^{-1}$ | 3 | | 15 | | 250 | 342.7 | 420 | MW25-06 | | 280.00 | 290.00 | 310.00 | 250.00 | 310.00 | 340.00 | 300.00 | 350.00 | 330.00 | 350.00 | 400.00 | 380.00 | 420.00 | 410.00 | 420.00 |
| Dissolved Organic Carbon (DOC) | mg.L$^{-1}$ | 0.1 | | 15 | | 1.7 | 2.1 | 2.71 | MW25-03 | | 2.08 | 2.05 | 1.89 | 2.36 | 1.80 | 2.71 | 2.27 | 1.96 | 2.33 | 1.87 | 2.23 | 1.96 | 1.70 | 2.03 | 1.70 |
| Total Suspended Solids | mg.L$^{-1}$ | 2 | | 15 | | 19 | 437.5 | 2500 | MW25-03-DUP | | 77.00 | 140.00 | 19.00 | 470.00 | 140.00 | 220.00 | 720.00 | 1100.00 | 730.00 | 2500.00 | 280.00 | 23.00 | 55.00 | 49.00 | 39.00 |
| Hardness - Total | mgCaCO$_3$.L$^{-1}$ | 1 | | 15 | | 304 | 487.1 | 758 | MW25-03-DUP | | 321.00 | 305.00 | 375.00 | 304.00 | 382.00 | 520.00 | 608.00 | 595.00 | 569.00 | 758.00 | 489.00 | 497.00 | 597.00 | 498.00 | 488.00 |
| Catechol | mg.L$^{-1}$ | 0.0005 | | 15 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | mg.L$^{-1}$ | 0.0005 | | 15 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | mg.L$^{-1}$ | | | | | | | | | | | | | | | | | | | | | | | | |
| Cresols (Total) | mg.L$^{-1}$ | 0.0005 | 0.1 | 15 | 0 | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | mg.L$^{-1}$ | 0.0005 | | 15 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | mg.L$^{-1}$ | 0.0005 | | 15 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | mg.L$^{-1}$ | 0.0005 | 0.0077 | 15 | 0 | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | mg.L$^{-1}$ | 0.0005 | | 15 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | mg.L$^{-1}$ | 0.0035 | | 15 | | <0.0035 | <0.0035 | <0.0035 | n/a | | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Total Xylenols & Ethylphenols | mg.L$^{-1}$ | 0.0005 | | 15 | | <0.0005 | <0.0005 | <0.0005 | n/a | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | mg.L$^{-1}$ | 0.00001 | 0.002 | 15 | 0 | <0.00001 | <0.00015 | 0.0019 | MW25-06 | | <0.00001 | <0.00001 | 0.00022 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0019 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthylene | mg.L$^{-1}$ | 0.00001 | | 15 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | mg.L$^{-1}$ | 0.00001 | | 15 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | mg.L$^{-1}$ | 0.00001 | | 15 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | mg.L$^{-1}$ | 0.00001 | | 15 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | mg.L$^{-1}$ | 0.00001 | 0.0001 | 15 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.0000063 | 15 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | mg.L$^{-1}$ | 0.00001 | | 15 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | mg.L$^{-1}$ | 0.00001 | | 15 | | <0.00001 | <0.00002 | 0.0001 | MW25-06-DUP | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00010 |
| Chrysene | mg.L$^{-1}$ | 0.00001 | | 15 | | <0.00001 | <0.00002 | 0.00011 | MW25-06-DUP | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00011 |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | 15 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | 15 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 | 0.00000017 | 15 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00001 | | 15 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | mg.L$^{-1}$ | 0.00001 | | 15 | | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00001 | 0.0000082 | 15 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00002 | | 15 | | <0.00002 | <0.00002 | <0.00002 | n/a | | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00004 | | 15 | | <0.00004 | <0.00004 | <0.00004 | n/a | | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00002 | | 15 | | <0.00002 | <0.00002 | <0.00002 | n/a | | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| PAH 16 Total | mg.L$^{-1}$ | 0.00016 | | 15 | | <0.00016 | <0.00028 | 0.0019 | MW25-06 | | <0.00016 | <0.00016 | 0.00022 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | 0.0019 | <0.00016 | <0.00016 | 0.00020 |
| Calcium | mg.L$^{-1}$ | 0.012 | | 15 | | 91 | 144.733 | 230 | MW25-03-DUP | | 99.00 | 91.00 | 120.00 | 91.00 | 120.00 | 140.00 | 170.00 | 170.00 | 150.00 | 230.00 | 150.00 | 150.00 | 190.00 | 150.00 | 150.00 |
| Iron | mg.L$^{-1}$ | 0.004 | 1 | 15 | 0 | <0.004 | <0.049 | 0.48 | MW25-03-DUP | | 0.017 | <0.004 | 0.0040 | 0.0080 | 0.0090 | 0.062 | 0.057 | <0.004 | 0.0090 | 0.48 | 0.0060 | 0.017 | 0.040 | 0.019 | 0.0050 |
| Magnesium | mg.L$^{-1}$ | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | mg.L$^{-1}$ | 0.00015 | 0.05 | 15 | 0 | 0.0011 | 0.00212 | 0.0032 | MW25-03 | | 0.0012 | 0.0023 | 0.0011 | 0.0017 | 0.0015 | 0.0032 | 0.0025 | 0.0025 | 0.0031 | 0.0030 | 0.0014 | 0.0025 | 0.0021 | 0.0023 | 0.0014 |
| Cadmium | mg.L$^{-1}$ | 0.00002 | <0.00008 | 15 | 0 | <0.00002 | <0.00002 | 0.00003 | MW25-03 | | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.000030 | <0.00002 | <0.00002 | 0.000030 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Chromium (VI) | mg.L$^{-1}$ | 0.005 | 0.0034 | 15 | 0 | <0.005 | <0.005 | <0.005 | n/a | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | mg.L$^{-1}$ | 0.0002 | 0.0034 | 15 | 0 | <0.0002 | <0.0003 | 0.00096 | MW25-03 | | <0.0002 | <0.0002 | 0.00030 | <0.0002 | <0.0002 | 0.00096 | <0.0002 | <0.0002 | 0.00032 | 0.00046 | 0.00022 | <0.0002 | <0.0002 | <0.0002 | 0.00055 |
| Copper | mg.L$^{-1}$ | 0.0005 | 0.001 | 15 | 15 | 0.0011 | 0.0019 | 0.0031 | MW25-03 | | **0.0015** | **0.0015** | **0.0026** | **0.0012** | **0.0023** | **0.0031** | **0.0011** | **0.0013** | **0.0030** | **0.0013** | **0.0027** | **0.0015** | **0.0019** | **0.0012** | **0.0020** |
| Lead | mg.L$^{-1}$ | 0.0002 | 0.0012 | 15 | 0 | <0.0002 | <0.0002 | 0.0003 | MW25-03 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00030 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00005 | 0.00007 | 15 | 0 | <0.00005 | <0.00005 | <0.00005 | n/a | | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | mg.L$^{-1}$ | 0.0005 | 0.004 | 15 | 1 | 0.0012 | 0.0025 | 0.0041 | MW25-03 | | 0.0014 | 0.0014 | 0.0013 | 0.0013 | 0.0012 | **0.0041** | 0.0027 | 0.0027 | 0.0039 | 0.0024 | 0.0031 | 0.0028 | 0.0029 | 0.0029 | 0.0031 |
| Selenium | mg.L$^{-1}$ | 0.0006 | | 15 | | <0.0006 | <0.0006 | <0.0006 | n/a | | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | mg.L$^{-1}$ | 0.0005 | 0.0123 | 15 | 1 | 0.001 | 0.0048 | 0.0294 | MW25-02 | | 0.0016 | 0.0010 | **0.029** | 0.0014 | 0.0039 | 0.0064 | 0.0013 | 0.0020 | 0.0070 | 0.0038 | 0.0034 | 0.0013 | 0.0035 | 0.0015 | 0.0046 |
| Benzene | mg.L$^{-1}$ | 0.001 | 0.01 | 15 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | mg.L$^{-1}$ | 0.001 | 0.074 | 15 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | mg.L$^{-1}$ | 0.001 | 0.02 | 15 | 0 | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | mg.L$^{-1}$ | 0.001 | | 15 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | mg.L$^{-1}$ | 0.001 | | 15 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | mg.L$^{-1}$ | 0.002 | 0.03 | 15 | 0 | <0.002 | <0.002 | <0.002 | n/a | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Methyl tert-butyl ether | mg.L$^{-1}$ | 0.003 | | 4 | | <0.003 | <0.003 | <0.003 | n/a | | <0.003 | | | | | <0.003 | | | <0.003 | | <0.003 | | | | |
| TPH (C10 - C40) | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 0.001 | | 15 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 0.001 | | 15 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | 15 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | mg.L$^{-1}$ | 0.001 | | 15 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | mg.L$^{-1}$ | 0.001 | | 15 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | 15 | | <0.001 | <0.001 | <0.001 | n/a | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | 0.03 | MW25-06 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | 0.02 | MW25-06 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.020 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | <0.01 | n/a | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | 0.05 | MW25-06 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.050 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | 0.05 | MW25-06 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.050 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | mg.L$^{-1}$ | 0.01 | | 15 | | <0.01 | <0.01 | 0.05 | MW25-06 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.050 | <0.01 | <0.01 | <0.01 |

**NUMBER OF SAMPLES: 121**

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Environmental Quality Standards for freshwater surface waters | CRITERIA 2 Combined Drinking Water Screening values | No. Analyses | CRITERIA 1 Exceedances | Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | pH Units | N/A | 6-9 | 6.5<9.5 | 121 | 12 | 12 | 6.8 | 7.6 | 11.500 | MW25-22 |
| Conductivity | µS.cm$^{-1}$ | 10 | | 2500 | 121 | | 36 | 640 | 2513.6 | 7200 | MW25-17 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.01 | | 0.05 | 121 | | 90 | <0.01 | <0.77 | 8.6 | MW25-10 |
| Complexed cyanide | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.77 | 8.5 | MW25-10 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 | 0.001 | 0.05 | 121 | 14 | 1 | <0.01 | <0.01 | 0.07 | MW25-14 |
| Thiocyanate | mg.L$^{-1}$ | 0.2 | | | 121 | | | <0.2 | <0.8 | 12 | MW25-14 |
| Sulphate | mg.L$^{-1}$ | 0.045 | 400 | 250 | 121 | 62 | 84 | 29.9 | 545.662 | 2220 | MW25-17 |
| Sulphur (Elemental) | mg.L$^{-1}$ | 0.02 | | | 80 | | | <0.02 | <0.02 | 0.04 | CBH102 |
| Sulphide | mg.L$^{-1}$ | 0.005 | | | 121 | | | <0.005 | <0.176 | 5.9 | MW25-17 |
| Chloride | mg.L$^{-1}$ | 0.15 | 250 | 250 | 121 | 63 | 63 | 27 | 446.72 | 1900 | MW25-17 |
| Ammonium as NH4 | mg.L$^{-1}$ | 0.015 | | 0.5 | 121 | | 102 | <0.015 | <54.093 | 680 | MW25-27 |
| Ammoniacal N (total) as N | mg.L$^{-1}$ | 0.011667 | 1.1 | | 121 | 92 | | <0.011667 | <42.073497 | 528.904 | MW25-27 |
| Un-ionised ammonia as nitrogen (NH3 as N) | mg.L$^{-1}$ | 0.011667 | | | 121 | | | <0.011667 | <42.073497 | 528.904 | MW25-27 |
| Total Organic Carbon (TOC) | mg.L$^{-1}$ | 0.1 | | | 121 | | | 2.46 | 23.7 | 264 | MW25-27 |
| Alkalinity as CaCO3 | mg.L$^{-1}$ | 3 | | | 121 | | | 50 | 379.4 | 1200 | MW25-27 |
| Dissolved Organic Carbon (DOC) | mg.L$^{-1}$ | 0.1 | | | 121 | | | 2.44 | 21.3 | 235 | MW25-27 |
| Total Suspended Solids | mg.L$^{-1}$ | 2 | | | 121 | | | <2 | <1193.9 | 110000 | CBH129 |
| Hardness - Total | mgCaCO.L$^{-1}$ | 1 | | | 121 | | | 201 | 694.2 | 2520 | MW25-08 |
| Catechol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.2783 | 14 | MW25-27 |
| Resorcinol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.0179 | 0.48 | MW25-23B |
| Ethylphenol & Dimethylphenol | mg.L$^{-1}$ | | | | | | | | | | |
| Cresols (Total) | mg.L$^{-1}$ | 0.0005 | 0.1 | | 121 | 15 | | <0.0005 | <1.3943 | 50 | MW25-27 |
| Naphthols | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.0558 | 2.2 | MW25-23B |
| Isopropylphenol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.1477 | 10 | MW25-27 |
| Phenol | mg.L$^{-1}$ | 0.0005 | 0.0077 | | 121 | 39 | | <0.0005 | <0.9463 | 56 | MW25-27 |
| Trimethylphenol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.5489 | 16 | MW25-23B |
| Phenols (Total) | mg.L$^{-1}$ | 0.0035 | | | 121 | | | <0.0035 | <5.9229 | 190 | MW25-27 |
| Total Xylenols & Ethylphenols | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <2.4998 | 66 | MW25-27 |
| Naphthalene | mg.L$^{-1}$ | 0.00001 | 0.002 | | 121 | 55 | | <0.00001 | <0.46322 | 6.8 | MW25-23B |
| Acenaphthylene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.02575 | 0.57 | MW25-23B |
| Acenaphthene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00578 | 0.12 | MW25-16A-S |
| Fluorene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.01219 | 0.39 | MW25-16A-S |
| Phenanthrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.02357 | 1.1 | MW25-16A-S |
| Anthracene | mg.L$^{-1}$ | 0.00001 | 0.0001 | | 121 | 29 | | <0.00001 | <0.00742 | 0.36 | MW25-16A-S |
| Fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.0000063 | | 121 | 52 | | <0.00001 | <0.01337 | 0.81 | MW25-16A-S |
| Pyrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.01045 | 0.62 | MW25-16A-S |
| Benzo[a]anthracene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00473 | 0.29 | MW25-16A-S |
| Chrysene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00328 | 0.25 | MW25-16A-S |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 121 | 17 | | <0.00001 | <0.00342 | 0.28 | MW25-16A-S |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 121 | 17 | | <0.00001 | <0.00161 | 0.13 | MW25-16A-S |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 | 0.00000017 | 0.00001 | 121 | 18 | 18 | <0.00001 | <0.0034 | 0.27 | MW25-16A-S |
| Indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00148 | 0.12 | MW25-16A-S |
| Dibenz(a,h)anthracene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00004 | 0.0032 | MW25-23B |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00001 | 0.0000082 | | 121 | 21 | | <0.00001 | <0.00159 | 0.13 | MW25-16A-S |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00002 | | | 121 | | | <0.00002 | <0.00504 | 0.41 | n/a |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00004 | | 0.0001 | 121 | | 16 | <0.00004 | <0.00801 | 0.65 | n/a |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00002 | | | 121 | | | <0.00002 | <0.00307 | 0.25 | n/a |
| PAH 16 Total | mg.L$^{-1}$ | 0.00016 | | | 121 | | | <0.00016 | <0.58256 | 9.8 | MW25-23B |
| Calcium | mg.L$^{-1}$ | 0.012 | | | 119 | | | 55 | 222.815 | 830 | MW25-08 |
| Iron | mg.L$^{-1}$ | 0.004 | 1 | 0.2 | 121 | 20 | 65 | <0.004 | <0.529 | 4.4 | MW25-10 |
| Magnesium | mg.L$^{-1}$ | | | | | | | | | | |
| Arsenic | mg.L$^{-1}$ | 0.00015 | 0.05 | 0.01 | 121 | 6 | 26 | 0.00035 | 0.00884 | 0.088 | MW25-10 |
| Cadmium | mg.L$^{-1}$ | 0.00002 | 0.00025 | 0.005 | 121 | 9 | 0 | <0.00002 | <0.00008 | 0.00073 | CBH124 |
| Chromium (VI) | mg.L$^{-1}$ | 0.005 | 0.0034 | | 121 | 0 | | <0.005 | <0.005 | <0.005 | n/a |
| Chromium (Total) | mg.L$^{-1}$ | 0.0002 | 0.0034 | 0.05 | 121 | 4 | 0 | <0.0002 | <0.0007 | 0.0064 | MW25-27 |
| Copper | mg.L$^{-1}$ | 0.0005 | 0.001 | 2 | 121 | 106 | 0 | <0.0005 | <0.0033 | 0.017 | CBH108-DUP |
| Lead | mg.L$^{-1}$ | 0.0002 | 0.0012 | 0.01 | 121 | 2 | 0 | <0.0002 | <0.0003 | 0.0052 | CBH104 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00005 | 0.00007 | 0.001 | 121 | 9 | 3 | <0.00005 | <0.0001 | 0.00199 | MW25-17 |
| Nickel | mg.L$^{-1}$ | 0.0005 | 0.004 | 0.02 | 121 | 69 | 2 | 0.0006 | 0.0056 | 0.023 | MW25-17 |
| Selenium | mg.L$^{-1}$ | 0.0006 | | 0.01 | 121 | | 2 | <0.0006 | <0.0026 | 0.015 | MW25-14 |
| Zinc | mg.L$^{-1}$ | 0.0005 | 0.0123 | | 121 | 15 | | 0.0006 | 0.006 | 0.0499 | CBH104 |
| Benzene | mg.L$^{-1}$ | 0.001 | 0.01 | 0.001 | 121 | 37 | 38 | <0.001 | <0.855 | 22 | MW25-23B |
| Toluene | mg.L$^{-1}$ | 0.001 | 0.074 | 0.7 | 121 | 23 | 9 | <0.001 | <0.411 | 14 | MW25-23B |
| Ethylbenzene | mg.L$^{-1}$ | 0.001 | 0.02 | 0.3 | 121 | 18 | 2 | <0.001 | <0.023 | 0.39 | MW25-10 |
| Xylene (p & m-Xylene) | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.149 | 4.1 | MW25-23B |
| Xylene (o-Xylene) | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.088 | 2 | MW25-23B |
| Xylenes (Total of m and p, o-xylenes) | mg.L$^{-1}$ | 0.002 | 0.03 | 0.5 | 121 | 34 | 13 | <0.002 | <0.237 | 6.1 | n/a |
| Methyl tert-butyl ether | mg.L$^{-1}$ | 0.003 | | | 55 | | | <0.003 | <0.003 | <0.003 | n/a |
| TPH (C10 - C40) | mg.L$^{-1}$ | 0.01 | | | 108 | | | <0.01 | <6.63 | 166 | MW25-27 |
| TPH Total C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <10.31 | 203 | MW25-27 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 0.001 | | 15 | 121 | | 0 | <0.001 | <0.001 | <0.001 | n/a |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 0.001 | | 15 | 121 | | 0 | <0.001 | <0.001 | 0.061 | MW25-33 |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | 0.3 | 121 | | 0 | <0.001 | <0.001 | 0.03 | MW25-33 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.3 | 121 | | 4 | <0.01 | <0.07 | 3.11 | MW25-27 |
| Aliphatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.03 | 0.62 | MW25-27 |
| Aliphatic C16 - C21 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.02 | 0.32 | CBH129 |
| Aliphatic C21 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.02 | 0.7 | CBH129 |
| Total Aliphatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 107 | | | <0.01 | <0.12 | 3.92 | MW25-27 |
| Total Aliphatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.11 | 3.92 | MW25-27 |
| Aromatic C5 - C7 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.846 | 22 | MW25-23B |
| Aromatic C7 - C8 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.412 | 14 | MW25-23B |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.266 | 6.6 | MW25-23B |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 50 | <0.01 | <6.02 | 156 | MW25-27 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 52 | <0.01 | <1.89 | 33.7 | MW25-27 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 47 | <0.01 | <0.41 | 9.17 | MW25-23B |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 51 | <0.01 | <0.38 | 8 | MW25-16A-S |
| Total Aromatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 107 | | | <0.01 | <6.94 | 192 | MW25-27 |
| Total Aromatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <10.19 | 199 | MW25-27 |

| Sample Location | MW25-01 | MW25-01 | MW25-01 | MW25-01-DUP | MW25-01-DUP | MW25-04A | MW25-04A | MW25-04A | MW25-07 | MW25-07 | MW25-07 | MW25-35 | MW25-35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Settling tanks | Settling tanks | Settling tanks | Settling tanks | Settling tanks | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip | Refuse tip |
| Monitoring Round No. | 1 | 2 | 3 | 1 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 |
| Date Sampled | 17/03/2025 | 07/04/2025 | 28/04/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 07/04/2025 |
| Stratum | Wolston Sand & Gravel | | | | | Wolston Sand & Gravel | | | Boulder Clay/Wolston Sand & Gravel | | | Boulder Clay/Wolston Sand & Gravel | |
| pH | 7.50 | 7.50 | 7.30 | 7.50 | 7.40 | 7.30 | 7.20 | 7.10 | 7.20 | 7.20 | 6.90 | 7.30 | 7.30 |
| Conductivity | 1600.00 | 1600.00 | 1600.00 | 1500.00 | 1600.00 | 2000.00 | 1900.00 | 2100.00 | 2100.00 | 2100.00 | 2100.00 | 2400.00 | 2300.00 |
| Cyanide (Total) (as CN) | 0.030 | 0.020 | 0.030 | 0.020 | 0.030 | 0.040 | 0.040 | 0.050 | 0.57 | 0.53 | 0.51 | 0.17 | 0.29 |
| Complexed cyanide | 0.030 | 0.020 | 0.030 | 0.020 | 0.030 | 0.040 | 0.040 | 0.050 | 0.57 | 0.53 | 0.51 | 0.17 | 0.29 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | <0.2 | 0.30 | <0.2 | <0.2 | 0.20 | <0.2 | 0.20 | 0.20 | 0.30 | 0.30 | 0.30 | <0.2 | <0.2 |
| Sulphate | 262.00 | 252.00 | 216.00 | 246.00 | 229.00 | 338.00 | 326.00 | 310.00 | 913.00 | 637.00 | 833.00 | 383.00 | 367.00 |
| Sulphur (Elemental) | <0.02 | | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 210.00 | 210.00 | 210.00 | 210.00 | 210.00 | 360.00 | 350.00 | 380.00 | 180.00 | 210.00 | 130.00 | 610.00 | 490.00 |
| Ammonium as NH4 | 2.40 | 4.00 | 3.80 | 3.80 | 3.90 | 7.10 | 5.70 | 4.60 | 2.70 | 2.90 | 2.50 | 2.70 | 2.40 |
| Ammoniacal N (total) as N | 1.87 | 3.11 | 2.96 | 2.96 | 3.03 | 5.52 | 4.43 | 3.58 | 2.10 | 2.26 | 1.94 | 2.10 | 1.87 |
| Un-ionised ammonia as nitrogen (NH3 as N) | 1.87 | 3.11 | 2.96 | 2.96 | 3.03 | 5.52 | 4.43 | 3.58 | 2.10 | 2.26 | 1.94 | 2.10 | 1.87 |
| Total Organic Carbon (TOC) | 6.40 | 9.19 | 8.57 | 9.40 | 8.38 | 5.86 | 4.47 | 3.33 | 5.25 | 3.98 | 5.01 | 2.88 | 2.73 |
| Alkalinity as CaCO3 | 370.00 | 370.00 | 390.00 | 330.00 | 380.00 | 340.00 | 300.00 | 300.00 | 370.00 | 340.00 | 340.00 | 320.00 | 250.00 |
| Dissolved Organic Carbon (DOC) | 6.30 | 8.31 | 8.15 | 9.29 | 8.20 | 5.59 | 4.31 | 3.09 | 4.74 | 3.82 | 4.88 | 2.85 | 2.55 |
| Total Suspended Solids | 180.00 | 110.00 | 120.00 | 91.00 | 180.00 | 56.00 | 110.00 | 240.00 | 110.00 | 75.00 | 700.00 | 120.00 | 95.00 |
| Hardness - Total | 428.00 | 444.00 | 490.00 | 397.00 | 509.00 | 550.00 | 567.00 | 564.00 | 1110.00 | 818.00 | 1200.00 | 619.00 | 550.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | | | | | | | | | | | | | |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.058 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | 0.058 | <0.0035 | <0.0035 | <0.0035 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0022 | 0.0016 |
| Acenaphthylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000040 | <0.00001 | <0.00001 | 0.00028 | <0.00001 |
| Acenaphthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000060 | <0.00001 | <0.00001 | 0.000060 | <0.00001 | <0.00001 | <0.00001 | 0.00013 | <0.00001 |
| Fluorene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00024 | 0.00016 |
| Phenanthrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00019 | 0.000040 | <0.00001 | <0.00001 | 0.00032 | 0.00026 |
| Anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00021 | <0.00001 | <0.00001 | <0.00001 | 0.00016 | <0.00001 |
| Pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00019 | 0.000080 | <0.00001 | <0.00001 | 0.00013 | <0.00001 |
| Benzo[a]anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000090 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000090 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| PAH 16 Total | <0.00016 | <0.00016 | <0.00016 | <0.00016 | 0.00023 | <0.00016 | <0.00016 | 0.00064 | 0.00016 | <0.00016 | <0.00016 | 0.0035 | 0.0020 |
| Calcium | 130.00 | 130.00 | 160.00 | 120.00 | 160.00 | 170.00 | 170.00 | 170.00 | 390.00 | 280.00 | 420.00 | 190.00 | 180.00 |
| Iron | 0.042 | 0.017 | 0.018 | 0.021 | 0.47 | 0.028 | 0.025 | 0.023 | 0.33 | 0.25 | 0.27 | 0.11 | 0.16 |
| Magnesium | | | | | | | | | | | | | |
| Arsenic | 0.0012 | 0.0031 | 0.0029 | 0.0028 | 0.0041 | 0.00057 | 0.00083 | 0.0011 | 0.00061 | 0.00054 | 0.00083 | 0.00039 | 0.00098 |
| Cadmium | 0.000050 | <0.00002 | <0.00002 | <0.00002 | 0.000030 | 0.000040 | 0.000030 | 0.000050 | 0.00017 | 0.00035 | 0.00050 | 0.000040 | 0.000030 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.00025 | 0.00020 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00032 | <0.0002 | 0.00037 | <0.0002 | 0.0011 |
| Copper | 0.0051 | 0.0020 | 0.0012 | 0.0023 | 0.0020 | 0.0033 | 0.0024 | 0.0029 | 0.0044 | 0.0048 | 0.0094 | 0.0033 | 0.0042 |
| Lead | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0054 | 0.0050 | 0.0052 | 0.0049 | 0.0061 | 0.0055 | 0.0053 | 0.0052 | 0.013 | 0.014 | 0.017 | 0.0031 | 0.0030 |
| Selenium | 0.00090 | 0.00080 | 0.00070 | 0.00080 | 0.00080 | 0.00080 | <0.0006 | <0.0006 | 0.0022 | 0.0015 | 0.0041 | 0.0011 | 0.0011 |
| Zinc | 0.0027 | 0.00090 | 0.0095 | 0.0010 | 0.020 | 0.0048 | 0.0034 | 0.0048 | 0.0071 | 0.0055 | 0.032 | 0.0080 | 0.0070 |
| Benzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Methyl tert-butyl ether | <0.003 | | | | | <0.003 | | | <0.003 | | | <0.003 | |
| TPH (C10 - C40) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.07 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.070 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.010 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.070 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.070 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

| Sample Location | MW25-35 | MW25-36 | MW25-36 | MW25-36 | MW25-36-DUP | MW25-13A | MW25-13A | MW25-13A | MW25-33 | MW25-33 | MW25-33 | MW25-10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Refuse tip | Reservoir | Reservoir | Reservoir | Reservoir | GH1 | GH1 | GH1 | GH1 | GH1 | GH1 | GH2 |
| Monitoring Round No. | 3 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | 1 | 2 | 3 | 1 |
| Date Sampled | 28/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 | 19/03/2025 | 09/04/2025 | 30/04/2025 | 18/03/2025 | 09/04/2025 | 30/04/2025 | 19/03/2025 |
| Stratum | Boulder Clay/Wolston Sand & Gravel | Wolston Sand & Gravel/Wolston Clay | | | | Made Ground | | | Made Ground | | | |
| pH | 7.10 | 7.10 | 7.20 | 7.10 | 7.10 | 7.90 | 7.90 | 7.90 | 7.60 | 7.30 | 7.50 | 9.90 |
| Conductivity | 2500.00 | 1800.00 | 1700.00 | 1700.00 | 1700.00 | 1400.00 | 1400.00 | 1400.00 | 1000.00 | 1100.00 | 1200.00 | 2000.00 |
| Cyanide (Total) (as CN) | 0.34 | 0.34 | 0.29 | 0.17 | 0.41 | 0.36 | 0.44 | 0.37 | 0.66 | 0.79 | 0.48 | 7.90 |
| Complexed cyanide | 0.34 | 0.34 | 0.29 | 0.17 | 0.41 | 0.36 | 0.44 | 0.37 | 0.66 | 0.79 | 0.48 | 7.90 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 |
| Thiocyanate | <0.2 | <0.2 | <0.2 | <0.2 | 0.20 | 0.20 | 0.30 | 0.30 | 0.30 | 0.20 | 0.40 | 6.20 |
| Sulphate | 377.00 | 364.00 | 343.00 | 301.00 | 282.00 | 446.00 | 474.00 | 478.00 | 378.00 | 480.00 | 433.00 | 568.00 |
| Sulphur (Elemental) | <0.02 | <0.02 | | <0.02 | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.012 | <0.005 | 0.0060 |
| Chloride | 490.00 | 240.00 | 240.00 | 240.00 | 240.00 | 82.00 | 81.00 | 84.00 | 27.00 | 35.00 | 40.00 | 350.00 |
| Ammonium as NH4 | 2.40 | 3.40 | 3.40 | 3.00 | 3.40 | 4.70 | 4.40 | 4.70 | 0.33 | 0.30 | 0.058 | 26.00 |
| Ammoniacal N (total) as N | 1.87 | 2.64 | 2.64 | 2.33 | 2.64 | 3.66 | 3.42 | 3.66 | 0.26 | 0.23 | 0.045 | 20.22 |
| Un-ionised ammonia as nitrogen (NH3 as N) | 1.87 | 2.64 | 2.64 | 2.33 | 2.64 | 3.66 | 3.42 | 3.66 | 0.26 | 0.23 | 0.045 | 20.22 |
| Total Organic Carbon (TOC) | 2.73 | 3.60 | 2.83 | 3.01 | 3.45 | 12.10 | 9.87 | 11.00 | 9.65 | 11.20 | 7.23 | 100.00 |
| Alkalinity as CaCO3 | 270.00 | 360.00 | 360.00 | 380.00 | 400.00 | 280.00 | 300.00 | 320.00 | 180.00 | 200.00 | 210.00 | 120.00 |
| Dissolved Organic Carbon (DOC) | 2.53 | 3.37 | 2.74 | 2.69 | 3.35 | 11.50 | 9.75 | 10.80 | 9.61 | 10.50 | 7.12 | 98.60 |
| Total Suspended Solids | 22.00 | 56.00 | 38.00 | 32.00 | 71.00 | 250.00 | 450.00 | 110.00 | 220.00 | 720.00 | 73.00 | 250.00 |
| Hardness - Total | 631.00 | 653.00 | 603.00 | 654.00 | 486.00 | 573.00 | 602.00 | 563.00 | 408.00 | 520.00 | 486.00 | 615.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | | | | | | | | | | | | |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.27 | <0.0005 | <0.0005 | 0.22 | <0.0005 | <0.0005 | 0.49 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | 0.27 | <0.0035 | <0.0035 | 0.22 | <0.0035 | <0.0035 | 0.49 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | 0.00049 | <0.00001 | <0.00001 | 0.00022 | <0.00001 | <0.00001 | 0.011 | 0.0028 | 0.011 | 0.042 | 0.014 | 1.70 |
| Acenaphthylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0011 | 0.019 | 0.00041 | 0.053 | 0.055 | 0.0042 | 0.11 |
| Acenaphthene | 0.000070 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0048 | 0.018 | 0.0013 | 0.035 | 0.034 | 0.0027 | 0.013 |
| Fluorene | 0.000080 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00073 | 0.014 | <0.00001 | 0.029 | 0.039 | 0.0019 | 0.025 |
| Phenanthrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0061 | 0.00020 | 0.026 | 0.053 | 0.0057 | 0.022 |
| Anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0038 | <0.00001 | 0.0068 | 0.024 | 0.0037 | 0.0063 |
| Fluoranthene | 0.000090 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00072 | 0.0039 | 0.00052 | 0.0033 | 0.031 | 0.016 | 0.0033 |
| Pyrene | 0.000070 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00093 | 0.0040 | 0.00087 | 0.0026 | 0.027 | 0.0097 | 0.0036 |
| Benzo[a]anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00098 | <0.00001 | 0.00034 | 0.010 | 0.0051 | 0.00081 |
| Chrysene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00074 | <0.00001 | 0.00022 | 0.0093 | 0.0048 | 0.00064 |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00061 | <0.00001 | <<0.00010 & | 0.0086 | 0.0044 | <<0.00010 & |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00021 | <0.00001 | <<0.00010 & | 0.0029 | 0.0026 | <<0.00010 & |
| Benzo[a]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00067 | <0.00001 | <<0.00010 & | 0.0079 | 0.0048 | 0.00043 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00021 | <0.00001 | <<0.00010 & | 0.0033 | 0.0024 | 0.00012 & |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <<0.00010 & |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00023 | <0.00001 | <<0.00010 & | 0.0039 | 0.0026 | 0.00018 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00082 | <0.00002 | | 0.0115 | 0.007 | |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | 0.00132 | <0.00004 | | 0.018 | 0.0124 | |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00044 | <0.00002 | | 0.0072 | 0.005 | |
| PAH 16 Total | 0.00080 | <0.00016 | <0.00016 | 0.00022 | <0.00016 | 0.0082 | 0.083 | 0.0061 | 0.17 | 0.35 | 0.084 | 1.90 |
| Calcium | 210.00 | 200.00 | 180.00 | 210.00 | 150.00 | 140.00 | 140.00 | 130.00 | 130.00 | 170.00 | 150.00 | 250.00 |
| Iron | 0.18 | 0.18 | 0.14 | 0.11 | 0.19 | 0.25 | 1.90 | 0.20 | 1.30 | 0.36 | 0.35 | 4.40 |
| Magnesium | | | | | | | | | | | | |
| Arsenic | 0.0013 | 0.00054 | 0.0010 | 0.0010 | 0.00059 | 0.011 | 0.0091 | 0.012 | 0.0024 | 0.0021 | 0.0022 | 0.070 |
| Cadmium | 0.000040 | 0.000020 | 0.000020 | <0.00002 | 0.000020 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00010 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00025 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.0011 |
| Copper | 0.0020 | 0.0023 | 0.0029 | 0.0040 | 0.0028 | 0.0016 | 0.0016 | 0.0021 | 0.0015 | 0.0017 | 0.0022 | 0.0061 |
| Lead | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.0011 | 0.00020 | 0.0012 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | 0.00024 |
| Nickel | 0.0042 | 0.0058 | 0.0051 | 0.0051 | 0.0055 | 0.0017 | 0.0012 | 0.0016 | 0.0022 | 0.0017 | 0.0018 | 0.015 |
| Selenium | 0.00080 | 0.0010 | <0.0006 | <0.0006 | 0.00080 | 0.0014 | 0.0012 | 0.0010 | 0.0025 | 0.0023 | 0.0034 | 0.0063 |
| Zinc | 0.0073 | 0.0049 | 0.0038 | 0.0046 | 0.0031 | 0.0024 | 0.00080 | 0.0022 | 0.0015 | 0.0015 | 0.0026 | 0.0019 |
| Benzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0010 | <0.001 | <0.001 | 0.13 | 0.17 | <0.001 | 0.43 |
| Toluene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.056 | 0.027 | <0.001 | 0.26 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.037 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.13 | 0.14 | <0.001 | 0.063 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0050 | 0.0040 | <0.001 | 0.087 | 0.10 | <0.001 | 0.057 |
| Xylenes (Total of m and p, o-xylenes) | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.006 | <0.005 | <0.002 | 0.217 | 0.24 | <0.002 | 0.12 |
| Methyl tert-butyl ether | | <0.003 | | | <0.003 | <0.003 | | | <0.003 | <0.003 | <0.003 | <0.003 |
| TPH (C10 - C40) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.32 | 1.49 | | 5.07 | 13.5 | | 5.23 |
| TPH Total C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.30 | 1.50 | 1.13 | 5.60 | 13.70 | 1.74 | 6.05 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.061 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.030 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.10 & | <0.01 | <<0.10 & | 0.51 | <0.01 | <<0.10 & |
| Aliphatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.10 & | <0.01 | <<0.10 & | 0.59 | <0.01 | <<0.10 & |
| Aliphatic C16 - C21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.10 & | <0.01 | <<0.10 & | 0.27 | <0.01 | <<0.10 & |
| Aliphatic C21 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <<0.10 & | <0.01 | <0.1 | 0.20 | <0.01 | <<0.10 & |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | 1.56 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.090 | 1.56 | <0.01 | <0.01 |
| Aromatic C5 - C7 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0026 | <0.001 | <0.001 | 0.14 | 0.17 | <0.001 | 0.44 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.076 | 0.028 | <0.001 | 0.26 |
| Aromatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0068 | 0.0064 | <0.001 | 0.22 | 0.24 | <0.001 | 0.18 |
| Aromatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.26 | 0.45 | 0.20 | 1.65 | 2.49 | 0.26 | 3.10 |
| Aromatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.46 | 0.62 | 0.38 | 2.31 | 4.08 | 0.58 | 1.16 |
| Aromatic C16 – C21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.21 | 0.18 | 0.20 | 0.45 | 2.37 | 0.36 | 0.30 |
| Aromatic C21 – C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.36 | 0.25 | 0.34 | 0.66 | 2.77 | 0.54 | 0.60 |
| Total Aromatic C10 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.29 | 1.49 | 1.13 | | 11.70 | 1.74 | 5.17 |
| Total Aromatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.30 | 1.50 | 1.13 | 5.51 | 12.20 | 1.74 | 6.05 |

**NUMBER OF SAMPLES: 121**

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Environmental Quality Standards for freshwater surface waters | CRITERIA 2 Combined Drinking Water Screening values | No. Analyses | CRITERIA 1 Exceedances | Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | pH Units | N/A | 6-9 | 6.5<9.5 | 121 | 12 | 12 | 6.8 | 7.6 | 11.500 | MW25-22 |
| Conductivity | µS.cm$^{-1}$ | 10 | | 2500 | 121 | | 36 | 640 | 2513.6 | 7200 | MW25-17 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.01 | | 0.05 | 121 | | 90 | <0.01 | <0.77 | 8.6 | MW25-10 |
| Complexed cyanide | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.77 | 8.5 | MW25-10 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 | 0.001 | 0.05 | 121 | 14 | 1 | <0.01 | <0.01 | 0.07 | MW25-14 |
| Thiocyanate | mg.L$^{-1}$ | 0.2 | | | 121 | | | <0.2 | <0.8 | 12 | MW25-14 |
| Sulphate | mg.L$^{-1}$ | 0.045 | 400 | 250 | 121 | 62 | 84 | 29.9 | 545.662 | 2220 | MW25-17 |
| Sulphur (Elemental) | mg.L$^{-1}$ | 0.02 | | | 80 | | | <0.02 | <0.02 | 0.04 | CBH102 |
| Sulphide | mg.L$^{-1}$ | 0.005 | | | 121 | | | <0.005 | <0.176 | 5.9 | MW25-17 |
| Chloride | mg.L$^{-1}$ | 0.15 | 250 | 250 | 121 | 63 | 63 | 27 | 446.72 | 1900 | MW25-17 |
| Ammonium as NH4 | mg.L$^{-1}$ | 0.015 | | 0.5 | 121 | | 102 | <0.015 | <54.093 | 680 | MW25-27 |
| Ammoniacal N (total) as N | mg.L$^{-1}$ | 0.011667 | 1.1 | | 121 | 92 | | <0.011667 | <42.0734 97 | 528.904 | MW25-27 |
| Un-ionised ammonia as nitrogen (NH3 as N) | mg.L$^{-1}$ | 0.011667 | | | 121 | | | <0.011667 | <42.0734 97 | 528.904 | MW25-27 |
| Total Organic Carbon (TOC) | mg.L$^{-1}$ | 0.1 | | | 121 | | | 2.46 | 23.7 | 264 | MW25-27 |
| Alkalinity as CaCO3 | mg.L$^{-1}$ | 3 | | | 121 | | | 50 | 379.4 | 1200 | MW25-27 |
| Dissolved Organic Carbon (DOC) | mg.L$^{-1}$ | 0.1 | | | 121 | | | 2.44 | 21.3 | 235 | MW25-27 |
| Total Suspended Solids | mg.L$^{-1}$ | 2 | | | 121 | | | <2 | <1193.9 | 110000 | CBH129 |
| Hardness - Total | mqCaCO.L$^{-1}$ | 1 | | | 121 | | | 201 | 694.2 | 2520 | MW25-08 |
| Catechol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.2783 | 14 | MW25-27 |
| Resorcinol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.0179 | 0.48 | MW25-23B |
| Ethylphenol & Dimethylphenol | mg.L$^{-1}$ | | | | | | | | | | |
| Cresols (Total) | mg.L$^{-1}$ | 0.0005 | 0.1 | | 121 | 15 | | <0.0005 | <1.3943 | 50 | MW25-27 |
| Naphthols | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.0558 | 2.2 | MW25-23B |
| Isopropylphenol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.1477 | 10 | MW25-27 |
| Phenol | mg.L$^{-1}$ | 0.0005 | 0.0077 | | 121 | 39 | | <0.0005 | <0.9463 | 56 | MW25-27 |
| Trimethylphenol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.5489 | 16 | MW25-23B |
| Phenols (Total) | mg.L$^{-1}$ | 0.0035 | | | 121 | | | <0.0035 | <5.9229 | 190 | MW25-27 |
| Total Xylenols & Ethylphenols | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <2.4998 | 66 | MW25-27 |
| Naphthalene | mg.L$^{-1}$ | 0.00001 | 0.002 | | 121 | 55 | | <0.00001 | <0.46322 | 6.8 | MW25-23B |
| Acenaphthylene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.02575 | 0.57 | MW25-23B |
| Acenaphthene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00578 | 0.12 | MW25-16A-S |
| Fluorene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.01219 | 0.39 | MW25-16A-S |
| Phenanthrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.02357 | 1.1 | MW25-16A-S |
| Anthracene | mg.L$^{-1}$ | 0.00001 | 0.0001 | | 121 | 29 | | <0.00001 | <0.00742 | 0.36 | MW25-16A-S |
| Fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.0000063 | | 121 | 52 | | <0.00001 | <0.01337 | 0.81 | MW25-16A-S |
| Pyrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.01045 | 0.62 | MW25-16A-S |
| Benzo[a]anthracene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00473 | 0.29 | MW25-16A-S |
| Chrysene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00328 | 0.25 | MW25-16A-S |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 121 | 17 | | <0.00001 | <0.00342 | 0.28 | MW25-16A-S |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 121 | 17 | | <0.00001 | <0.00161 | 0.13 | MW25-16A-S |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 | 0.00000017 | 0.00001 | 121 | 18 | 18 | <0.00001 | <0.0034 | 0.27 | MW25-16A-S |
| Indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00148 | 0.12 | MW25-16A-S |
| Dibenz(a,h)anthracene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00004 | 0.0032 | MW25-23B |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00001 | 0.0000082 | | 121 | 21 | | <0.00001 | <0.00159 | 0.13 | MW25-16A-S |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00002 | | | 121 | | | <0.00002 | <0.00504 | 0.41 | n/a |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00004 | | 0.0001 | 121 | | 16 | <0.00004 | <0.00801 | 0.65 | n/a |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00002 | | | 121 | | | <0.00002 | <0.00307 | 0.25 | n/a |
| PAH 16 Total | mg.L$^{-1}$ | 0.00016 | | | 121 | | | <0.00016 | <0.58256 | 9.8 | MW25-23B |
| Calcium | mg.L$^{-1}$ | 0.012 | | | 119 | | | 55 | 222.815 | 830 | MW25-08 |
| Iron | mg.L$^{-1}$ | 0.004 | 1 | 0.2 | 121 | 20 | 65 | <0.004 | <0.529 | 4.4 | MW25-10 |
| Magnesium | mg.L$^{-1}$ | | | | | | | | | | |
| Arsenic | mg.L$^{-1}$ | 0.00015 | 0.05 | 0.01 | 121 | 6 | 26 | 0.00035 | 0.00884 | 0.088 | MW25-10 |
| Cadmium | mg.L$^{-1}$ | 0.00002 | 0.00025 | 0.005 | 121 | 9 | 0 | <0.00002 | <0.00008 | 0.00073 | CBH124 |
| Chromium (VI) | mg.L$^{-1}$ | 0.005 | 0.0034 | | 121 | 0 | | <0.005 | <0.005 | <0.005 | n/a |
| Chromium (Total) | mg.L$^{-1}$ | 0.0002 | 0.0034 | 0.05 | 121 | 4 | 0 | <0.0002 | <0.0007 | 0.0064 | MW25-27 |
| Copper | mg.L$^{-1}$ | 0.0005 | 0.001 | 2 | 121 | 106 | 0 | <0.0005 | <0.0033 | 0.017 | CBH108-DUP |
| Lead | mg.L$^{-1}$ | 0.0002 | 0.0012 | 0.01 | 121 | 2 | 0 | <0.0002 | <0.0003 | 0.0052 | CBH104 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00005 | 0.00007 | 0.001 | 121 | 9 | 3 | <0.00005 | <0.0001 | 0.00199 | MW25-17 |
| Nickel | mg.L$^{-1}$ | 0.0005 | 0.004 | 0.02 | 121 | 69 | 2 | 0.0006 | 0.0056 | 0.023 | MW25-17 |
| Selenium | mg.L$^{-1}$ | 0.0006 | | 0.01 | 121 | | 2 | <0.0006 | <0.0026 | 0.015 | MW25-14 |
| Zinc | mg.L$^{-1}$ | 0.0005 | 0.0123 | | 121 | 15 | | 0.0006 | 0.006 | 0.0499 | CBH104 |
| Benzene | mg.L$^{-1}$ | 0.001 | 0.01 | 0.001 | 121 | 37 | 38 | <0.001 | <0.855 | 22 | MW25-23B |
| Toluene | mg.L$^{-1}$ | 0.001 | 0.074 | 0.7 | 121 | 23 | 9 | <0.001 | <0.411 | 14 | MW25-23B |
| Ethylbenzene | mg.L$^{-1}$ | 0.001 | 0.02 | 0.3 | 121 | 18 | 2 | <0.001 | <0.023 | 0.39 | MW25-10 |
| Xylene (p & m-Xylene) | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.149 | 4.1 | MW25-23B |
| Xylene (o-Xylene) | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.088 | 2 | MW25-23B |
| Xylenes (Total of m and p, o-xylenes) | mg.L$^{-1}$ | 0.002 | 0.03 | 0.5 | 121 | 34 | 13 | <0.002 | <0.237 | 6.1 | n/a |
| Methyl tert-butyl ether | mg.L$^{-1}$ | 0.003 | | | 55 | | | <0.003 | <0.003 | <0.003 | n/a |
| TPH (C10 - C40) | mg.L$^{-1}$ | 0.01 | | | 108 | | | <0.01 | <6.63 | 166 | MW25-27 |
| TPH Total C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <10.31 | 203 | MW25-27 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 0.001 | | 15 | 121 | | 0 | <0.001 | <0.001 | <0.001 | n/a |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 0.001 | | 15 | 121 | | 0 | <0.001 | <0.001 | 0.061 | MW25-33 |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | 0.3 | 121 | | 0 | <0.001 | <0.001 | 0.03 | MW25-33 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.3 | 121 | | 4 | <0.01 | <0.07 | 3.11 | MW25-27 |
| Aliphatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.03 | 0.62 | MW25-27 |
| Aliphatic C16 - C21 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.02 | 0.32 | CBH129 |
| Aliphatic C21 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.02 | 0.7 | CBH129 |
| Total Aliphatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 107 | | | <0.01 | <0.12 | 3.92 | MW25-27 |
| Total Aliphatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.11 | 3.92 | MW25-27 |
| Aromatic C5 - C7 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.846 | 22 | MW25-23B |
| Aromatic C7 - C8 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.412 | 14 | MW25-23B |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.266 | 6.6 | MW25-23B |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 50 | <0.01 | <6.02 | 156 | MW25-27 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 52 | <0.01 | <1.89 | 33.7 | MW25-27 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 47 | <0.01 | <0.41 | 9.17 | MW25-23B |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 51 | <0.01 | <0.38 | 8 | MW25-16A-S |
| Total Aromatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 107 | | | <0.01 | <6.94 | 192 | MW25-27 |
| Total Aromatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <10.19 | 199 | MW25-27 |

| | GH2 | GH2 | GH2 | GH2 | GH2 | GH3 | GH3 | GH3 | GH3 | GH3 | GH3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | MW25-10 | MW25-10 | MW25-30B | MW25-30B | MW25-30B | MW25-17 | MW25-17 | MW25-17 | MW25-22 | MW25-22 | MW25-22 |
| Monitoring Round No. | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Date Sampled | 09/04/2025 | 30/04/2025 | 19/03/2025 | 10/04/2025 | 30/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 |
| Stratum | Made Ground | | | Made Ground | | | Made Ground | | | Made Ground | |
| pH | 10.10 | 10.20 | 9.60 | 10.10 | 10.20 | 10.40 | 10.60 | 10.70 | 11.20 | 11.50 | 11.40 |
| Conductivity | 1800.00 | 1800.00 | 1200.00 | 1300.00 | 1400.00 | 7100.00 | 6100.00 | 7200.00 | 1900.00 | 2000.00 | 2200.00 |
| Cyanide (Total) (as CN) | 8.60 | 3.90 | 4.30 | 3.20 | 2.60 | 3.30 | 2.60 | 0.73 | 1.40 | 2.10 | 1.30 |
| Complexed cyanide | 8.50 | 3.90 | 4.30 | 3.20 | 2.60 | 3.30 | 2.60 | 0.73 | 1.40 | 2.10 | 1.30 |
| Easily liberatable cyanide | 0.020 | 0.020 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | 5.10 | 4.70 | 0.90 | 1.20 | 1.80 | 1.30 | 2.20 | 0.70 | 1.80 | 0.70 | 0.50 |
| Sulphate | 439.00 | 423.00 | 583.00 | 494.00 | 450.00 | 1630.00 | 1520.00 | 2220.00 | 435.00 | 468.00 | 588.00 |
| Sulphur (Elemental) | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | 0.0080 | 2.30 | 0.21 | 5.90 | 3.60 | 3.70 | 4.90 |
| Chloride | 350.00 | 330.00 | 73.00 | 130.00 | 180.00 | 1900.00 | 1800.00 | 1800.00 | 330.00 | 310.00 | 300.00 |
| Ammonium as NH4 | 24.00 | 22.00 | 5.10 | 9.60 | 12.00 | 14.00 | 12.00 | 10.00 | 6.90 | 9.60 | 7.10 |
| Ammoniacal N (total) as N | 18.67 | 17.11 | 3.97 | 7.47 | 9.33 | 10.89 | 9.33 | 7.78 | 5.37 | 7.47 | 5.52 |
| Un-ionised ammonia as nitrogen (NH3 as N) | 18.67 | 17.11 | 3.97 | 7.47 | 9.33 | 10.89 | 9.33 | 7.78 | 5.37 | 7.47 | 5.52 |
| Total Organic Carbon (TOC) | 66.90 | 55.10 | 14.40 | 19.70 | 23.40 | 44.10 | 47.10 | 34.40 | 34.20 | 40.30 | 25.30 |
| Alkalinity as CaCO3 | 110.00 | 110.00 | 50.00 | 53.00 | 74.00 | 120.00 | 90.00 | 120.00 | 180.00 | 210.00 | 180.00 |
| Dissolved Organic Carbon (DOC) | 66.40 | 55.00 | 14.30 | 19.10 | 22.70 | 43.90 | 42.10 | 31.80 | 33.50 | 37.60 | 24.10 |
| Total Suspended Solids | 39.00 | 280.00 | 16.00 | 7.50 | 12.00 | 38.00 | 23.00 | 25.00 | 2.60 | 6.90 | 5.00 |
| Hardness - Total | 560.00 | 410.00 | 391.00 | 366.00 | 364.00 | 1520.00 | 1180.00 | 1580.00 | 259.00 | 233.00 | 328.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.30 | 0.27 | <0.0005 | 0.14 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.084 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | | | | | | | | | | | |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.23 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | <0.0005 | 0.62 | <0.0005 | <0.0005 | 0.16 | 0.28 | <0.0005 | <0.0005 | 0.37 | 0.24 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | <0.0035 | <0.0035 | 0.62 | <0.0035 | <0.0035 | 0.16 | 0.66 | 0.27 | <0.0035 | 1.80 | 0.24 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 1.00000 | <0.0005 |
| Naphthalene | 1.40 | 1.30 | 0.27 | 0.80 | 1.30 | 0.19 | 0.11 | 0.21 | 0.075 | 0.099 | 0.084 |
| Acenaphthylene | 0.084 | 0.061 | 0.030 | 0.046 | 0.047 | 0.0013 | 0.0014 | 0.0014 | 0.00043 | 0.00049 | 0.00047 |
| Acenaphthene | 0.011 | 0.0063 | 0.0077 | 0.0086 | 0.012 | 0.0090 | 0.012 | 0.013 | 0.014 | 0.018 | 0.024 |
| Fluorene | 0.021 | 0.011 | 0.013 | 0.014 | 0.018 | 0.0056 | 0.0071 | 0.0078 | 0.0069 | 0.0085 | 0.012 |
| Phenanthrene | 0.018 | 0.011 | 0.0088 | 0.011 | 0.015 | 0.0059 | 0.0077 | 0.0073 | 0.011 | 0.014 | 0.016 |
| Anthracene | <<0.00010 & | 0.0030 | 0.0031 | <<0.00010 & | 0.0037 | <0.00001 | 0.0021 | <0.00001 | 0.0025 | <0.00001 | <0.00001 |
| Fluoranthene | 0.0023 | 0.0015 | 0.0014 | 0.0014 | 0.0020 | 0.0012 | 0.0014 | 0.0015 | 0.0024 | 0.0028 | 0.0042 |
| Pyrene | 0.0024 | 0.0017 | 0.0013 | 0.0012 | 0.0018 | 0.00067 | 0.00087 | 0.00091 | 0.0015 | 0.0017 | 0.0025 |
| Benzo[a]anthracene | 0.00065 | 0.00033 | <0.00001 | 0.00024 | 0.00018 | <0.00001 | <0.00001 | <0.00001 | 0.00018 | <0.00001 | 0.00044 |
| Chrysene | 0.00064 | 0.00026 | <0.00001 | 0.00013 | 0.00012 | <0.00001 | <0.00001 | <0.00001 | 0.00010 | <0.00001 | 0.00048 |
| Benzo[b]fluoranthene | <<0.00010 & | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00036 |
| Benzo[k]fluoranthene | <<0.00010 & | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00038 |
| Benzo[a]pyrene | <<0.00010 & | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00027 |
| Indeno[1,2,3-cd]pyrene | 0.00050 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00030 |
| Dibenz(a,h)anthracene | <<0.00010 & | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | 0.00053 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00028 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | | <0.00002 | <0.00002 | | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00074 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | | <0.00004 | <0.00004 | | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | 0.00123 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | 0.00103 | <0.00002 | <0.00002 | | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00058 |
| PAH 16 Total | 1.60 | 1.40 | 0.33 | 0.88 | 1.40 | 0.21 | 0.14 | 0.24 | 0.11 | 0.14 | 0.15 |
| Calcium | 220.00 | 160.00 | 150.00 | 150.00 | 150.00 | 610.00 | | 630.00 | 100.00 | 93.00 | 130.00 |
| Iron | 3.20 | 2.90 | 2.00 | 1.20 | 1.20 | 1.70 | 1.20 | 0.37 | 0.69 | 0.72 | 0.54 |
| Magnesium | | | | | | | | | | | |
| Arsenic | 0.079 | 0.088 | 0.029 | 0.048 | 0.052 | 0.059 | 0.046 | 0.022 | 0.027 | 0.025 | 0.021 |
| Cadmium | 0.000080 | 0.00013 | 0.000030 | 0.000020 | 0.000030 | 0.000030 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.00032 | 0.00031 | 0.00036 | <0.0002 | <0.0002 | 0.00093 | 0.00097 | 0.00069 | 0.00071 | 0.00045 | 0.00029 |
| Copper | 0.0045 | 0.0029 | 0.0016 | 0.0017 | 0.0011 | 0.00080 | <0.0005 | <0.0005 | 0.0013 | 0.00090 | 0.00060 |
| Lead | 0.0021 | 0.00040 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00060 | <0.0002 | 0.00020 | 0.00040 | <0.0002 |
| Mercury (inorganic) | 0.00011 | 0.000090 | 0.000070 | <0.00005 | 0.000060 | 0.0011 | 0.0020 | 0.0012 | 0.00029 | 0.00079 | 0.00026 |
| Nickel | 0.012 | 0.012 | 0.0033 | 0.0048 | 0.0061 | 0.023 | 0.018 | 0.013 | 0.016 | 0.018 | 0.013 |
| Selenium | 0.0030 | 0.0029 | 0.0087 | 0.0026 | 0.0019 | 0.0055 | 0.0039 | 0.0046 | 0.0048 | 0.0037 | 0.0036 |
| Zinc | 0.00070 | 0.0013 | 0.00060 | 0.0011 | 0.0011 | 0.0016 | 0.0014 | 0.0015 | 0.00090 | 0.00080 | 0.0015 |
| Benzene | 0.84 | 1.90 | 0.43 | 0.37 | 2.10 | 0.039 | <0.001 | 0.022 | 0.023 | <0.001 | <0.001 |
| Toluene | 0.60 | 1.50 | 0.29 | 0.18 | 1.0 | 0.012 | <0.001 | <0.001 | 0.0040 | <0.001 | <0.001 |
| Ethylbenzene | 0.11 | 0.39 | 0.10 | 0.043 | 0.26 | 0.010 | <0.001 | <0.001 | 0.0050 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | 0.24 | 0.88 | 0.16 | 0.073 | 0.44 | 0.016 | <0.001 | 0.010 | 0.0060 | <0.001 | <0.001 |
| Xylene (o-Xylene) | 0.17 | 0.50 | 0.10 | 0.058 | 0.29 | 0.010 | <0.001 | <0.001 | 0.0050 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | 0.41 | 1.38 | 0.26 | 0.131 | 0.73 | 0.026 | <0.002 | <0.0112 | 0.011 | <0.002 | <0.002 |
| Methyl tert-butyl ether | <0.003 | <0.003 | <0.003 | | | <0.003 | <0.003 | <0.003 | <0.003 | | |
| TPH (C10 - C40) | 5.19 | | 3.34 | 8.03 | | 4.26 | 3.98 | 1.57 | 2.36 | 1.88 | 1.57 |
| TPH Total C5 - C35 | 7.19 | 11.40 | 4.45 | 8.78 | 9.83 | 4.35 | 3.98 | 1.65 | 2.42 | 1.88 | 1.64 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <<0.10 & | <0.01 | <0.01 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <<0.10 & | <0.01 | <0.01 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <<0.10 & | <0.01 | <0.01 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <<0.10 & | <0.01 | <0.01 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | 0.85 | 1.90 | 0.44 | 0.38 | 2.10 | 0.040 | <0.001 | 0.029 | 0.023 | <0.001 | 0.028 |
| Aromatic C7 - C8 | 0.60 | 1.50 | 0.29 | 0.18 | 0.99 | 0.013 | <0.001 | <0.001 | 0.0043 | <0.001 | 0.0052 |
| Aromatic C8 – C10 | 0.54 | 1.90 | 0.38 | 0.19 | 1.10 | 0.070 | <0.001 | 0.053 | 0.023 | <0.001 | 0.032 |
| Aromatic C10 – C12 | 3.45 | 4.23 | 2.02 | 5.46 | 4.13 | 1.60 | 1.65 | 0.67 | 1.03 | 0.85 | 0.71 |
| Aromatic C12 – C16 | 1.14 | 1.11 | 0.93 | 1.48 | 1.0 | 0.78 | 0.78 | 0.34 | 0.55 | 0.43 | 0.35 |
| Aromatic C16 – C21 | 0.32 | 0.33 | 0.18 | 0.38 | 0.21 | 0.69 | 0.64 | 0.29 | 0.39 | 0.33 | 0.26 |
| Aromatic C21 – C35 | 0.29 | 0.49 | 0.22 | 0.71 | 0.34 | 1.15 | 0.91 | 0.27 | 0.40 | 0.28 | 0.25 |
| Total Aromatic C10 - C35 | 5.19 | 6.15 | | 8.03 | 5.68 | 4.23 | 3.98 | 1.57 | | 1.88 | 1.57 |
| Total Aromatic C5 - C35 | 7.19 | 11.40 | 4.45 | 8.78 | 9.83 | 4.35 | 3.98 | 1.65 | 2.42 | 1.88 | 1.64 |

| | GHA | GHA | GHA | GHB | GHB | GHB | Primary Purifiers | Primary Purifiers | Primary Purifiers | Purifier Catch box | Purifier Catch box | Purifier Catch box | Brick structure | Brick structure |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | MW25-23B | MW25-23B | MW25-23B | MW25-25 | MW25-25 | MW25-25 | MW25-11 | MW25-11 | MW25-11 | MW25-14 | MW25-14 | MW25-14 | MW25-09C | MW25-09C |
| Monitoring Round No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 |
| Date Sampled | 18/03/2025 | 10/04/2025 | 07/05/2025 | 19/03/2025 | 09/04/2025 | 30/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 |
| Stratum | | Made Ground/Wolston Sand & Gravel | | | Wolston Sand & Gravel | | | Wolston Sand & Gravel | | | Made Ground | | | Made Ground |
| pH | 7.70 | 7.60 | 7.60 | 7.40 | 7.30 | 7.30 | 7.50 | 7.80 | 7.50 | 7.40 | 7.30 | 7.20 | 7.60 | 7.80 |
| Conductivity | 1300.00 | 1500.00 | 1600.00 | 2100.00 | 2000.00 | 2000.00 | 2000.00 | 1700.00 | 1700.00 | 3400.00 | 3700.00 | 3400.00 | 2500.00 | 2400.00 |
| Cyanide (Total) (as CN) | 0.12 | 0.10 | 0.10 | 0.19 | 0.18 | 0.25 | 0.74 | 0.56 | 0.080 | 4.50 | 7.20 | 4.60 | 1.50 | 1.40 |
| Complexed cyanide | 0.12 | 0.10 | 0.10 | 0.19 | 0.18 | 0.25 | 0.74 | 0.56 | 0.080 | 4.40 | 7.20 | 4.50 | 1.50 | 1.40 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.030 | 0.070 | 0.050 | 0.020 | 0.010 |
| Thiocyanate | 1.0 | 1.0 | 1.0 | 0.30 | 0.40 | 0.50 | 0.30 | <0.2 | <0.2 | 4.10 | 12.00 | 4.40 | 0.60 | 0.40 |
| Sulphate | 65.30 | 73.00 | 38.80 | 193.00 | 262.00 | 274.00 | 851.00 | 625.00 | 245.00 | 1730.00 | 2050.00 | 1920.00 | 1280.00 | 1210.00 |
| Sulphur (Elemental) | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | 0.033 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 200.00 | 230.00 | 280.00 | 190.00 | 190.00 | 180.00 | 200.00 | 190.00 | 300.00 | 350.00 | 430.00 | 340.00 | 170.00 | 140.00 |
| Ammonium as NH4 | 79.00 | 98.00 | 100.00 | 77.00 | 95.00 | 83.00 | 0.095 | <0.015 | <0.015 | 46.00 | 54.00 | 44.00 | 3.10 | 2.70 |
| Ammoniacal N (total) as N | 61.45 | 76.22 | 77.78 | 59.89 | 73.89 | 64.56 | 0.074 | <0.011667 | <0.011667 | 35.78 | 42.00 | 34.22 | 2.41 | 2.10 |
| Un-ionised ammonia as nitrogen (NH3 as N) | 61.45 | 76.22 | 77.78 | 59.89 | 73.89 | 64.56 | 0.074 | <0.011667 | <0.011667 | 35.78 | 42.00 | 34.22 | 2.41 | 2.10 |
| Total Organic Carbon (TOC) | 38.90 | 65.20 | 86.20 | 25.20 | 27.60 | 104.00 | 4.64 | 3.70 | 2.88 | 23.10 | 37.10 | 34.00 | 8.16 | 7.07 |
| Alkalinity as CaCO3 | 420.00 | 450.00 | 450.00 | 650.00 | 700.00 | 700.00 | 240.00 | 270.00 | 250.00 | 95.00 | 110.00 | 120.00 | 450.00 | 390.00 |
| Dissolved Organic Carbon (DOC) | 38.40 | 64.10 | 85.60 | 24.60 | 24.50 | 98.50 | 4.29 | 3.64 | 2.82 | 22.80 | 34.10 | 33.10 | 7.99 | 6.85 |
| Total Suspended Solids | 190.00 | 100.00 | 290.00 | 250.00 | 1200.00 | 180.00 | 35.00 | 30.00 | 370.00 | 190.00 | 150.00 | 36.00 | 54.00 | 26.00 |
| Hardness - Total | 270.00 | 305.00 | 381.00 | 431.00 | 528.00 | 378.00 | 833.00 | 548.00 | 461.00 | 1640.00 | 1360.00 | 1950.00 | 1330.00 | 1080.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | 0.48 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | | | | | | | | | | | | | | |
| Cresols (Total) | 2.80 | <0.0005 | 4.30 | <0.0005 | <0.0005 | 5.60 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.13 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | 2.20 | <0.0005 | 1.80 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.14 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.30 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | 0.060 | 5.50 | 7.60 | <0.0005 | 3.50 | 3.70 | <0.0005 | 0.012 | <0.0005 | <0.0005 | 0.37 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | 8.30 | 14.00 | 16.00 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.26 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | 30.00 | 48.00 | 60.00 | <0.0035 | 3.50 | 9.40 | <0.0035 | 0.012 | <0.0035 | <0.0035 | 1.60 | <0.0035 | <0.0035 | <0.0035 |
| Total Xylenols & Ethylphenols | 17.00 | 29.00 | 30.00 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.39 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | 2.30 | 3.60 | 6.80 | 0.0050 | 1.20 | 0.22 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.039 | 0.019 | 0.015 | <0.00001 |
| Acenaphthylene | 0.15 | 0.18 | 0.57 | 0.051 | 0.12 | 0.059 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00090 | <0.00001 |
| Acenaphthene | 0.016 | 0.022 | 0.027 | 0.011 | 0.023 | 0.015 | <0.00001 | <0.00001 | <0.00001 | 0.00068 | 0.00019 | 0.0019 | 0.010 | 0.0061 |
| Fluorene | 0.056 | 0.079 | 0.36 | 0.018 | 0.081 | 0.024 | <0.00001 | <0.00001 | <0.00001 | 0.00082 | 0.00018 | 0.0023 | 0.00064 | 0.00061 |
| Phenanthrene | 0.058 | 0.11 | 0.66 | 0.028 | 0.22 | 0.039 | <0.00001 | <0.00001 | <0.00001 | 0.0012 | 0.00014 | <0.00001 | 0.00040 | <0.00001 |
| Anthracene | 0.022 | 0.044 | 0.28 | 0.0060 | 0.069 | 0.013 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 |
| Fluoranthene | 0.013 | 0.053 | 0.40 | 0.0071 | 0.14 | 0.020 | <0.00001 | <0.00001 | <0.00001 | 0.00041 | 0.00013 | <0.00001 | 0.00085 | 0.00080 |
| Pyrene | 0.0091 | 0.040 | 0.32 | 0.0050 | 0.12 | 0.015 | <0.00001 | <0.00001 | <0.00001 | 0.00045 | <0.00001 | <0.00001 | 0.00062 | 0.00058 |
| Benzo[a]anthracene | <<0.00020 & | 0.019 | 0.16 | 0.0013 | 0.050 | 0.0040 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 |
| Chrysene | <<0.00020 & | 0.016 | 0.038 | 0.0012 | 0.044 | 0.0036 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 |
| Benzo[b]fluoranthene | <<0.00020 & | 0.015 | 0.036 | <<0.00010 & | 0.040 | 0.0029 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 |
| Benzo[k]fluoranthene | <<0.00020 & | 0.0084 | 0.015 | <<0.00010 & | 0.022 | 0.0017 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 |
| Benzo[a]pyrene | <<0.00020 & | 0.017 | 0.035 | <0.00001 | 0.041 | 0.0034 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 |
| Indeno[1,2,3-cd]pyrene | 0.00066 | 0.0066 | 0.012 | 0.00036 & | 0.018 | 0.0013 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 |
| Dibenz(a,h)anthracene | <0.00001 | <<0.00010 & | 0.0032 | <<0.00010 & | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 |
| Benzo[ghi]perylene | 0.00068 & | 0.0058 | 0.013 | 0.00039 | 0.019 | 0.0013 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | | 0.0234 | 0.051 | | 0.062 | 0.0046 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | | 0.0378 | 0.075 | | 0.1 | 0.0077 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | | 0.0124 | 0.025 | | 0.037 | 0.0026 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | | <0.00002 |
| PAH 16 Total | 2.60 | 4.30 | 9.80 | 0.14 | 2.30 | 0.43 | <0.00016 | <0.00016 | <0.00016 | 0.0036 | 0.039 | 0.023 | 0.028 | 0.0081 |
| Calcium | 74.00 | 77.00 | 92.00 | 130.00 | 150.00 | 110.00 | 310.00 | 190.00 | 150.00 | 570.00 | 460.00 | 690.00 | 470.00 | 380.00 |
| Iron | 0.17 | 0.58 | 0.12 | 0.73 | 0.14 | 0.094 | 0.31 | 0.25 | 0.083 | 1.90 | 3.00 | 2.10 | 0.63 | 0.59 |
| Magnesium | | | | | | | | | | | | | | |
| Arsenic | 0.0045 | 0.0098 | 0.012 | 0.014 | 0.0060 | 0.014 | 0.00070 | 0.00060 | 0.00074 | 0.0091 | 0.0081 | 0.012 | 0.0084 | 0.011 |
| Cadmium | <0.00002 | <0.00002 | <0.00002 | 0.000020 | <0.00002 | 0.000030 | 0.000060 | 0.000040 | 0.000060 | 0.000020 | <0.00002 | 0.000020 | <0.00002 | <0.00002 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | U/S *U/S g | U/S *U/S g | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.00034 | <0.0002 | 0.00029 | 0.00056 | 0.00078 | 0.00095 | 0.00027 | <0.0002 | <0.0002 | 0.0015 | 0.0035 | 0.0019 | 0.0031 | 0.00021 |
| Copper | 0.00090 | 0.0019 | 0.0040 | 0.0040 | 0.0043 | 0.0031 | 0.0059 | 0.0029 | 0.0095 | 0.0021 | 0.0012 | 0.0030 | 0.0013 | 0.0027 |
| Lead | <0.0002 | 0.00040 | <0.0002 | <0.0002 | 0.00030 | 0.00040 | <0.0002 | <0.0002 | <0.0002 | 0.00070 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0044 | 0.0024 | 0.0024 | 0.0030 | 0.0056 | 0.0038 | 0.0049 | 0.0058 | 0.0076 | 0.014 | 0.022 | 0.018 | 0.00090 | 0.00080 |
| Selenium | 0.0053 | 0.0038 | 0.0060 | 0.0049 | 0.0067 | 0.0038 | 0.00060 | <0.0006 | 0.0011 | 0.015 | 0.012 | 0.0074 | <0.0006 | <0.0006 |
| Zinc | 0.0022 | 0.0015 | 0.0068 | 0.0030 | 0.0023 | 0.0023 | 0.0047 | 0.0020 | 0.020 | 0.0050 | 0.0028 | 0.0062 | 0.0038 | 0.0021 |
| Benzene | 22.00 | 19.00 | 20.00 | 0.12 | 0.63 | 0.81 | <0.001 | <0.001 | <0.001 | <0.001 | 0.039 | <0.001 | 0.0080 | <0.001 |
| Toluene | 14.00 | 11.00 | 13.00 | 0.027 | 0.14 | 0.066 | <0.001 | <0.001 | <0.001 | <0.001 | 0.018 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | 0.28 | 0.13 | 0.35 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0070 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | 2.70 | 1.70 | 4.10 | <0.001 | 0.021 | 0.032 | <0.001 | <0.001 | <0.001 | 0.042 | 0.14 | 0.044 | 0.0020 | <0.001 |
| Xylene (o-Xylene) | 1.50 | 0.86 | 2.00 | <0.001 | 0.014 | 0.020 | <0.001 | <0.001 | <0.001 | 0.018 | 0.11 | 0.026 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | 4.2 | 2.56 | 6.1 | <0.002 | 0.035 | 0.052 | <0.002 | <0.002 | <0.002 | 0.06 | 0.25 | 0.07 | <0.003 | <0.002 |
| Methyl tert-butyl ether | <0.003 | <0.003 | <0.003 | <0.003 | | | <0.003 | | | <0.003 | | | <0.003 | |
| TPH (C10 - C40) | 39.6 | 45.7 | | 5.14 | 14.3 | | <0.01 | <0.01 | <0.01 | 1.54 | 8.52 | 2.86 | 1.08 | 0.74 |
| TPH Total C5 - C35 | 79.80 | 78.00 | 135.00 | 5.25 | 15.10 | 6.59 | <0.01 | <0.01 | <0.01 | 1.61 | 8.78 | 2.94 | 1.10 | 0.73 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <<0.20 & | <<0.10 & | 1.32 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <<0.20 & | <<0.10 & | 0.44 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <<0.20 & | <<0.10 & | 0.17 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <<0.20 & | <<0.10 & | 0.21 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | | <0.01 | 2.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | 2.14 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | 22.00 | 19.00 | 19.00 | 0.13 | 0.64 | 0.82 | <0.001 | <0.001 | <0.001 | <0.001 | 0.040 | <0.001 | 0.010 | <0.001 |
| Aromatic C7 - C8 | 14.00 | 11.00 | 13.00 | 0.027 | 0.14 | 0.067 | <0.001 | <0.001 | <0.001 | <0.001 | 0.019 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | 4.50 | 2.60 | 6.60 | 0.014 | 0.042 | 0.067 | <0.001 | <0.001 | <0.001 | 0.075 | 0.25 | 0.082 | 0.0078 | <0.001 |
| Aromatic C10 – C12 | 22.20 | 28.40 | 55.50 | 1.88 | 6.76 | 2.93 | <0.01 | <0.01 | <0.01 | 0.64 | 3.63 | 1.21 | 0.29 | 0.14 |
| Aromatic C12 – C16 | 12.80 | 13.00 | 23.50 | 1.63 | 3.08 | 1.65 | <0.01 | <0.01 | <0.01 | 0.43 | 2.77 | 0.89 | 0.34 | 0.21 |
| Aromatic C16 – C21 | 3.52 | 3.57 | 9.17 | 0.74 | 2.25 | 0.76 | <0.01 | <0.01 | <0.01 | 0.18 | 1.08 | 0.40 | 0.21 | 0.15 |
| Aromatic C21 – C35 | 1.09 | 0.82 | 5.19 | 0.83 | 2.16 | 0.29 | <0.01 | <0.01 | <0.01 | 0.29 | 0.99 | 0.36 | 0.24 | 0.23 |
| Total Aromatic C10 - C35 | | 45.70 | 93.30 | 5.08 | 14.30 | 5.64 | <0.01 | <0.01 | <0.01 | 1.54 | 8.47 | 2.86 | | 0.73 |
| Total Aromatic C5 - C35 | 79.80 | 78.00 | 132.00 | 5.25 | 15.10 | 6.59 | <0.01 | <0.01 | <0.01 | 1.61 | 8.78 | 2.94 | 1.10 | 0.73 |

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# Table F: Groundwater Analytical Data - Area B



NUMBER OF SAMPLES: 121

| Analytical Parameter | Units | Limit of detection | CRITERIA 1 Environmental Quality Standards for freshwater surface waters | CRITERIA 2 Combined Drinking Water Screening values | No. Analyses | CRITERIA 1 Exceedances | Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | pH Units | N/A | 6-9 | 6.5<9.5 | 121 | 12 | 12 | 6.8 | 7.6 | 11.500 | MW25-22 |
| Conductivity | µS.cm$^{-1}$ | 10 | | 2500 | 121 | | 36 | 640 | 2513.6 | 7200 | MW25-17 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.01 | | 0.05 | 121 | | 90 | <0.01 | <0.77 | 8.6 | MW25-10 |
| Complexed cyanide | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.77 | 8.5 | MW25-10 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 | 0.001 | 0.05 | 121 | 14 | 1 | <0.01 | <0.01 | 0.07 | MW25-14 |
| Thiocyanate | mg.L$^{-1}$ | 0.2 | | | 121 | | | <0.2 | <0.8 | 12 | MW25-14 |
| Sulphate | mg.L$^{-1}$ | 0.045 | 400 | 250 | 121 | 62 | 84 | 29.9 | 545.662 | 2220 | MW25-17 |
| Sulphur (Elemental) | mg.L$^{-1}$ | 0.02 | | | 80 | | | <0.02 | <0.02 | 0.04 | CBH102 |
| Sulphide | mg.L$^{-1}$ | 0.005 | | | 121 | | | <0.005 | <0.176 | 5.9 | MW25-17 |
| Chloride | mg.L$^{-1}$ | 0.15 | 250 | 250 | 121 | 63 | 63 | 27 | 446.72 | 1900 | MW25-17 |
| Ammonium as NH4 | mg.L$^{-1}$ | 0.015 | | 0.5 | 121 | | 102 | <0.015 | <54.093 | 680 | MW25-27 |
| Ammoniacal N (total) as N | mg.L$^{-1}$ | 0.011667 | 1.1 | | 121 | 92 | | <0.011667 | <42.073497 | 528.904 | MW25-27 |
| Un-ionised ammonia as nitrogen (NH3 as N) | mg.L$^{-1}$ | 0.011667 | | | 121 | | | <0.011667 | <42.073497 | 528.904 | MW25-27 |
| Total Organic Carbon (TOC) | mg.L$^{-1}$ | 0.1 | | | 121 | | | 2.46 | 23.7 | 264 | MW25-27 |
| Alkalinity as CaCO3 | mg.L$^{-1}$ | 3 | | | 121 | | | 50 | 379.4 | 1200 | MW25-27 |
| Dissolved Organic Carbon (DOC) | mg.L$^{-1}$ | 0.1 | | | 121 | | | 2.44 | 21.3 | 235 | MW25-27 |
| Total Suspended Solids | mg.L$^{-1}$ | 2 | | | 121 | | | <2 | <1193.9 | 110000 | CBH129 |
| Hardness - Total | mqCaCO.L$^{-1}$ | 1 | | | 121 | | | 201 | 694.2 | 2520 | MW25-08 |
| Catechol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.2783 | 14 | MW25-27 |
| Resorcinol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.0179 | 0.48 | MW25-23B |
| Ethylphenol & Dimethylphenol | mg.L$^{-1}$ | | | | | | | | | | |
| Cresols (Total) | mg.L$^{-1}$ | 0.0005 | 0.1 | | 121 | 15 | | <0.0005 | <1.3943 | 50 | MW25-27 |
| Naphthols | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.0558 | 2.2 | MW25-23B |
| Isopropylphenol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.1477 | 10 | MW25-27 |
| Phenol | mg.L$^{-1}$ | 0.0005 | 0.0077 | | 121 | 39 | | <0.0005 | <0.9463 | 56 | MW25-27 |
| Trimethylphenol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.5489 | 16 | MW25-23B |
| Phenols (Total) | mg.L$^{-1}$ | 0.0035 | | | 121 | | | <0.0035 | <5.9229 | 190 | MW25-27 |
| Total Xylenols & Ethylphenols | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <2.4998 | 66 | MW25-27 |
| Naphthalene | mg.L$^{-1}$ | 0.00001 | 0.002 | | 121 | 55 | | <0.00001 | <0.46322 | 6.8 | MW25-23B |
| Acenaphthylene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.02575 | 0.57 | MW25-23B |
| Acenaphthene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00578 | 0.12 | MW25-16A-S |
| Fluorene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.01219 | 0.39 | MW25-16A-S |
| Phenanthrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.02357 | 1.1 | MW25-16A-S |
| Anthracene | mg.L$^{-1}$ | 0.00001 | 0.0001 | | 121 | 29 | | <0.00001 | <0.00742 | 0.36 | MW25-16A-S |
| Fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.0000063 | | 121 | 52 | | <0.00001 | <0.01337 | 0.81 | MW25-16A-S |
| Pyrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.01045 | 0.62 | MW25-16A-S |
| Benzo[a]anthracene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00473 | 0.29 | MW25-16A-S |
| Chrysene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00328 | 0.25 | MW25-16A-S |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 121 | 17 | | <0.00001 | <0.00342 | 0.28 | MW25-16A-S |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 121 | 17 | | <0.00001 | <0.00161 | 0.13 | MW25-16A-S |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 | 0.00000017 | 0.00001 | 121 | 18 | 18 | <0.00001 | <0.0034 | 0.27 | MW25-16A-S |
| Indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00148 | 0.12 | MW25-16A-S |
| Dibenz(a,h)anthracene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00004 | 0.0032 | MW25-23B |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00001 | 0.0000082 | | 121 | 21 | | <0.00001 | <0.00159 | 0.13 | MW25-16A-S |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00002 | | | 121 | | | <0.00002 | <0.00504 | 0.41 | n/a |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00004 | | 0.0001 | 121 | | 16 | <0.00004 | <0.00801 | 0.65 | n/a |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00002 | | | 121 | | | <0.00002 | <0.00307 | 0.25 | n/a |
| PAH 16 Total | mg.L$^{-1}$ | 0.00016 | | | 121 | | | <0.00016 | <0.58256 | 9.8 | MW25-23B |
| Calcium | mg.L$^{-1}$ | 0.012 | | | 119 | | | 55 | 222.815 | 830 | MW25-08 |
| Iron | mg.L$^{-1}$ | 0.004 | 1 | 0.2 | 121 | 20 | 65 | <0.004 | <0.529 | 4.4 | MW25-10 |
| Magnesium | mg.L$^{-1}$ | | | | | | | | | | |
| Arsenic | mg.L$^{-1}$ | 0.00015 | 0.05 | 0.01 | 121 | 6 | 26 | 0.00035 | 0.00884 | 0.088 | MW25-10 |
| Cadmium | mg.L$^{-1}$ | 0.00002 | 0.00025 | 0.005 | 121 | 9 | 0 | <0.00002 | <0.00008 | 0.00073 | CBH124 |
| Chromium (VI) | mg.L$^{-1}$ | 0.005 | 0.0034 | | 121 | 0 | | <0.005 | <0.005 | <0.005 | n/a |
| Chromium (Total) | mg.L$^{-1}$ | 0.0002 | 0.0034 | 0.05 | 121 | 4 | 0 | <0.0002 | <0.0007 | 0.0064 | MW25-27 |
| Copper | mg.L$^{-1}$ | 0.0005 | 0.001 | 2 | 121 | 106 | 0 | <0.0005 | <0.0033 | 0.017 | CBH108-DUP |
| Lead | mg.L$^{-1}$ | 0.0002 | 0.0012 | 0.01 | 121 | 2 | 0 | <0.0002 | <0.0003 | 0.0052 | CBH104 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00005 | 0.00007 | 0.001 | 121 | 9 | 3 | <0.00005 | <0.0001 | 0.00199 | MW25-17 |
| Nickel | mg.L$^{-1}$ | 0.0005 | 0.004 | 0.02 | 121 | 69 | 2 | 0.0006 | 0.0056 | 0.023 | MW25-17 |
| Selenium | mg.L$^{-1}$ | 0.0006 | | 0.01 | 121 | | 2 | <0.0006 | <0.0026 | 0.015 | MW25-14 |
| Zinc | mg.L$^{-1}$ | 0.0005 | 0.0123 | | 121 | 15 | | 0.0006 | 0.006 | 0.0499 | CBH104 |
| Benzene | mg.L$^{-1}$ | 0.001 | 0.01 | 0.001 | 121 | 37 | 38 | <0.001 | <0.855 | 22 | MW25-23B |
| Toluene | mg.L$^{-1}$ | 0.001 | 0.074 | 0.7 | 121 | 23 | 9 | <0.001 | <0.411 | 14 | MW25-23B |
| Ethylbenzene | mg.L$^{-1}$ | 0.001 | 0.02 | 0.3 | 121 | 18 | 2 | <0.001 | <0.023 | 0.39 | MW25-10 |
| Xylene (p & m-Xylene) | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.149 | 4.1 | MW25-23B |
| Xylene (o-Xylene) | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.088 | 2 | MW25-23B |
| Xylenes (Total of m and p, o-xylenes) | mg.L$^{-1}$ | 0.002 | 0.03 | 0.5 | 121 | 34 | 13 | <0.002 | <0.237 | 6.1 | n/a |
| Methyl tert-butyl ether | mg.L$^{-1}$ | 0.003 | | | 55 | | | <0.003 | <0.003 | <0.003 | n/a |
| TPH (C10 - C40) | mg.L$^{-1}$ | 0.01 | | | 108 | | | <0.01 | <6.63 | 166 | MW25-27 |
| TPH Total C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <10.31 | 203 | MW25-27 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 0.001 | | 15 | 121 | | 0 | <0.001 | <0.001 | <0.001 | n/a |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 0.001 | | 15 | 121 | | 0 | <0.001 | <0.001 | 0.061 | MW25-33 |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | 0.3 | 121 | | 0 | <0.001 | <0.001 | 0.03 | MW25-33 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.3 | 121 | | 4 | <0.01 | <0.07 | 3.11 | MW25-27 |
| Aliphatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.03 | 0.62 | MW25-27 |
| Aliphatic C16 - C21 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.02 | 0.32 | CBH129 |
| Aliphatic C21 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.02 | 0.7 | CBH129 |
| Total Aliphatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 107 | | | <0.01 | <0.12 | 3.92 | MW25-27 |
| Total Aliphatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.11 | 3.92 | MW25-27 |
| Aromatic C5 - C7 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.846 | 22 | MW25-23B |
| Aromatic C7 - C8 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.412 | 14 | MW25-23B |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.266 | 6.6 | MW25-23B |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 50 | <0.01 | <6.02 | 156 | MW25-27 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 52 | <0.01 | <1.89 | 33.7 | MW25-27 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 47 | <0.01 | <0.41 | 9.17 | MW25-23B |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 51 | <0.01 | <0.38 | 8 | MW25-16A-S |
| Total Aromatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 107 | | | <0.01 | <6.94 | 192 | MW25-27 |
| Total Aromatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <10.19 | 199 | MW25-27 |

| Sample Location | MW25-09C | MW25-12 | MW25-12 | MW25-12 | MW25-16A-D | MW25-16A-D | MW25-16A-D | MW25-16A-S | MW25-16A-S | MW25-16A-S | MW25-18 | MW25-18 | MW25-18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Brick structure | Oxide shed | Oxide shed | Oxide shed | Scrubbers | Scrubbers | Scrubbers | Scrubbers | Scrubbers | Scrubbers | Tar well | Tar well | Tar well |
| Monitoring Round No. | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Date Sampled | 29/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 |
| Stratum | | Wolston Sand & Gravel | | | Wolston Sand & Gravel | | | Made Ground | | | Boulder Clay | | |
| pH | 7.60 | 7.10 | 7.20 | 7.20 | 7.50 | 7.50 | 7.40 | 7.60 | 7.60 | 7.50 | 7.40 | 7.50 | 7.40 |
| Conductivity | 2400.00 | 2100.00 | 2200.00 | 2200.00 | 6900.00 | 6200.00 | 6000.00 | 4700.00 | 4100.00 | 640.00 | 2000.00 | 1900.00 | 2000.00 |
| Cyanide (Total) (as CN) | 1.40 | 0.31 | 0.22 | 0.10 | 0.48 | 0.43 | 0.46 | 0.51 | 0.75 | 0.58 | 0.46 | 0.76 | 0.93 |
| Complexed cyanide | 1.40 | 0.31 | 0.22 | 0.10 | 0.47 | 0.43 | 0.44 | 0.51 | 0.75 | 0.56 | 0.46 | 0.76 | 0.92 |
| Easily liberatable cyanide | 0.020 | <0.01 | <0.01 | <0.01 | 0.010 | <0.01 | 0.020 | <0.01 | <0.01 | 0.010 | <0.01 | <0.01 | 0.020 |
| Thiocyanate | 0.20 | <0.2 | <0.2 | <0.2 | 0.90 | 0.80 | 0.90 | 1.70 | 1.60 | 1.70 | 0.20 | 0.20 | 0.30 |
| Sulphate | 1130.00 | 211.00 | 181.00 | 138.00 | 71.00 | 70.40 | 81.20 | 445.00 | 298.00 | 272.00 | 473.00 | 458.00 | 473.00 |
| Sulphur (Elemental) | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.013 | 0.065 | 0.0060 | <0.005 | <0.005 | <0.005 |
| Chloride | 130.00 | 510.00 | 560.00 | 560.00 | 1900.00 | 1800.00 | 1800.00 | 1400.00 | 1300.00 | 37.00 | 260.00 | 260.00 | 260.00 |
| Ammonium as NH4 | 2.80 | 7.00 | 7.60 | 6.30 | 600.00 | 620.00 | 490.00 | 88.00 | 84.00 | 57.00 | 0.96 | 0.58 | 1.20 |
| Ammoniacal N (total) as N | 2.18 | 5.44 | 5.91 | 4.90 | 466.68 | 482.24 | 381.12 | 68.45 | 65.34 | 44.33 | 0.75 | 0.45 | 0.93 |
| Un-ionised ammonia as nitrogen (NH3 as N) | 2.18 | 5.44 | 5.91 | 4.90 | 466.68 | 482.24 | 381.12 | 68.45 | 65.34 | 44.33 | 0.75 | 0.45 | 0.93 |
| Total Organic Carbon (TOC) | 7.95 | 3.85 | 3.18 | 2.95 | 30.50 | 31.70 | 38.00 | 172.00 | 34.40 | 47.40 | 6.63 | 6.23 | 6.90 |
| Alkalinity as CaCO3 | 420.00 | 250.00 | 240.00 | 250.00 | 760.00 | 700.00 | 700.00 | 590.00 | 570.00 | 640.00 | 290.00 | 280.00 | 250.00 |
| Dissolved Organic Carbon (DOC) | 7.80 | 3.57 | 2.89 | 2.94 | 29.10 | 31.70 | 36.20 | 53.80 | 34.10 | 43.90 | 6.37 | 6.07 | 6.80 |
| Total Suspended Solids | 28.00 | 150.00 | 49.00 | 240.00 | 200.00 | 52.00 | 43.00 | 3400.00 | 11000.00 | 150.00 | 75.00 | 40.00 | 17.00 |
| Hardness - Total | 1480.00 | 300.00 | 300.00 | 287.00 | 372.00 | 334.00 | 300.00 | 483.00 | 383.00 | 404.00 | 665.00 | 594.00 | 680.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.26 | 0.27 | 0.25 | 0.11 | 0.13 | 0.25 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.41 | <0.0005 | 0.24 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | | | | | | | | | | | | | |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.88 | 0.56 | <0.0005 | 0.79 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.41 | <0.0005 | 0.48 | 0.89 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 1.50 | 0.48 | 0.82 | <0.0005 | <0.0005 | 0.91 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 1.40 | 1.0 | 1.0 | 0.13 | 0.85 | 1.70 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 2.40 | 1.40 | 1.80 | 2.40 | <0.0005 | 2.00 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | <0.0035 | <0.0035 | <0.0035 | <0.0035 | 13.00 | 6.80 | 8.80 | 7.60 | 1.20 | 8.10 | <0.0035 | 0.019 | <0.0035 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 6.60 | 3.00 | 4.00 | 3.40 | <0.0005 | 3.20 | <0.0005 | 0.01900 | <0.0005 |
| Naphthalene | 0.0070 | 0.00038 | 0.0013 | 0.0032 | 4.90 | 3.50 | 2.10 | 2.30 | 4.80 | 0.00011 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthylene | <0.00001 | <0.00001 | <0.00001 | 0.000070 | 0.19 | 0.13 | 0.14 | 0.56 | 0.13 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.017 | 0.014 | 0.017 | 0.12 | 0.030 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.039 | 0.029 | 0.035 | 0.39 | 0.062 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.052 | 0.028 | 0.023 | 1.10 | 0.24 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.012 | <<0.0001 & | <0.00001 | 0.36 | 0.022 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.018 | 0.0037 | 0.0032 | 0.81 | 0.035 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.013 | <<0.0001 & | 0.0021 | 0.62 | 0.025 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0040 | <<0.0001 & | <0.00001 | 0.29 | 0.0076 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0033 | <0.00001 | <0.00001 | 0.25 | 0.0066 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00020 & | <<0.0001 & | <0.00001 | 0.28 | 0.0068 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00020 & | <<0.0001 & | <0.00001 | 0.13 | 0.0027 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0036 | <<0.0001 & | <0.00001 | 0.27 | 0.0066 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0017 | <<0.0001 & | <0.00001 | 0.12 | 0.0026 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00028 | <<0.0001 & | <0.00001 | <0.00001 | <<0.0001 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0020 | <<0.0001 & | <0.00001 | 0.13 | 0.0031 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | | | <0.00002 | 0.41 | 0.0095 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | <0.00004 | <0.00004 | <0.00004 | <0.00004 | | | <0.00004 | 0.65 | 0.015 | <0.00004 | <0.00004 | <0.00004 | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.0037 | | <0.00002 | 0.25 | 0.0057 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| PAH 16 Total | 0.0070 | 0.00038 | 0.0013 | 0.0033 | 5.20 | 3.70 | 2.30 | 7.70 | 5.40 | <0.00016 | <0.00016 | <0.00016 | <0.00016 |
| Calcium | 540.00 | 98.00 | 99.00 | 97.00 | 73.00 | 69.00 | 60.00 | 140.00 | | 120.00 | 230.00 | 210.00 | 240.00 |
| Iron | 0.57 | 0.20 | 0.13 | 0.32 | 0.37 | 0.25 | 0.33 | 1.0 | 0.41 | 0.52 | 0.21 | 0.29 | 0.41 |
| Magnesium | | | | | | | | | | | | | |
| Arsenic | 0.0085 | 0.00036 | 0.00068 | 0.00043 | 0.0094 | 0.013 | 0.0082 | 0.018 | 0.042 | 0.064 | 0.0028 | 0.0033 | 0.0029 |
| Cadmium | <0.00002 | 0.000050 | 0.000020 | 0.000050 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00012 | 0.00012 | 0.00014 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.00044 | 0.00023 | <0.0002 | <0.0002 | 0.00025 | <0.0002 | <0.0002 | 0.0024 | 0.00095 | 0.00086 | 0.00074 | 0.00091 | 0.00083 |
| Copper | 0.011 | 0.0019 | 0.0013 | 0.0017 | 0.0011 | 0.00050 | 0.0015 | 0.00080 | 0.00070 | 0.0012 | 0.0083 | 0.0083 | 0.0086 |
| Lead | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00040 | 0.00020 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0022 | 0.0042 | 0.0023 | 0.0037 | 0.0041 | 0.0030 | 0.0032 | 0.0068 | 0.0088 | 0.011 | 0.0060 | 0.0064 | 0.0060 |
| Selenium | <0.0006 | <0.0006 | <0.0006 | <0.0006 | 0.0027 | 0.0020 | 0.0019 | 0.0030 | 0.0019 | 0.0020 | 0.0078 | 0.0076 | 0.0095 |
| Zinc | 0.046 | 0.0059 | 0.0025 | 0.0030 | 0.0017 | 0.0012 | 0.0015 | 0.0046 | 0.0023 | 0.0031 | 0.0052 | 0.0037 | 0.0057 |
| Benzene | <0.001 | <0.001 | <0.001 | <0.001 | 4.70 | 0.82 | 3.50 | 1.70 | 0.55 | 1.80 | <0.001 | <0.001 | <0.001 |
| Toluene | <0.001 | <0.001 | <0.001 | <0.001 | 0.81 | 0.096 | 0.33 | 0.40 | 0.099 | 0.33 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | 0.090 | 0.011 | <0.001 | 0.098 | 0.065 | 0.12 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | 0.94 | 0.091 | 0.50 | 0.77 | 0.27 | 0.90 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | 0.47 | 0.055 | 0.29 | 0.50 | 0.21 | 0.60 | <0.001 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | <0.002 | <0.002 | <0.002 | <0.002 | 1.41 | 0.146 | 0.79 | 1.27 | 0.48 | 1.5 | <0.002 | <0.002 | <0.002 |
| Methyl tert-butyl ether | | <0.003 | | | <0.003 | | | <0.003 | <0.003 | <0.003 | <0.003 | | |
| TPH (C10 - C40) | 2.86 | <0.01 | <0.01 | <0.01 | 29.9 | 19.6 | 11 | 51.4 | 23.8 | <0.01 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | 2.86 | <0.01 | <0.01 | <0.01 | 36.60 | 20.60 | 15.60 | 54.20 | 25.00 | 3.79 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <<0.1 & | <0.01 | <0.01 | <0.01 | <<0.20 & | <0.01 | <0.01 | <<0.40 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <<0.1 & | <0.01 | <0.01 | <0.01 | <<0.20 & | <0.01 | <0.01 | <<0.40 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <<0.1 & | <0.01 | <0.01 | <0.01 | <<0.20 & | <0.01 | <0.01 | <<0.40 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <<0.1 & | <0.01 | <0.01 | <0.01 | <<0.20 & | <0.01 | <0.01 | <<0.40 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | <0.001 | <0.001 | <0.001 | <0.001 | 4.70 | 0.81 | 3.50 | 1.70 | 0.55 | 1.80 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | 0.81 | 0.096 | 0.34 | 0.40 | 0.10 | 0.33 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | 1.50 | 0.16 | 0.81 | 1.40 | 0.57 | 1.70 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | 0.75 | <0.01 | <0.01 | <0.01 | 20.90 | 14.00 | 8.06 | 25.00 | 16.40 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | 0.74 | <0.01 | <0.01 | <0.01 | 5.82 | 3.85 | 2.21 | 11.10 | 5.46 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | 0.33 | <0.01 | <0.01 | <0.01 | 1.63 | 1.02 | 0.57 | 6.69 | 1.19 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | 1.03 | <0.01 | <0.01 | <0.01 | 1.28 | 0.70 | 0.16 | 8.00 | 0.70 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | 2.86 | <0.01 | <0.01 | <0.01 | | 19.60 | 11.00 | | 23.80 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | 2.86 | <0.01 | <0.01 | <0.01 | 36.60 | 20.60 | 15.60 | 54.20 | 25.00 | 3.79 | <0.01 | <0.01 | <0.01 |

| Sample Location | MW25-20 | MW25-20 | MW25-20 | MW25-21 | MW25-21 | MW25-21 | MW25-27 | MW25-27 | MW25-27 | MW25-29 | MW25-29 | MW25-29 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | CWG plant | CWG plant | CWG plant | Boiler house | Boiler house | Boiler house | Retort house | Retort house | Retort house | Exhauster | Exhauster | Exhauster |
| Monitoring Round No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Date Sampled | 19/03/2025 | 09/04/2025 | 30/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 09/04/2025 | 30/04/2025 | 18/03/2025 | 09/04/2025 | 30/04/2025 |
| Stratum | Wolston Sand & Gravel | | | Wolston Sand & Gravel | | | Boulder Clay/Wolston Sand & Gravel | | | Wolston Sand & Gravel | | |
| pH | 7.30 | 7.00 | 7.10 | 7.50 | 7.30 | 7.20 | 7.90 | 7.70 | 7.70 | 7.30 | 7.20 | 7.20 |
| Conductivity | 1500.00 | 1500.00 | 1400.00 | 2400.00 | 3000.00 | 3300.00 | 5400.00 | 5100.00 | 4900.00 | 1800.00 | 1800.00 | 1800.00 |
| Cyanide (Total) (as CN) | 0.070 | 0.080 | 0.090 | <0.01 | <0.01 | <0.01 | 0.24 | 0.23 | 0.26 | 0.17 | 0.19 | 0.20 |
| Complexed cyanide | 0.070 | 0.080 | 0.090 | <0.01 | <0.01 | <0.01 | 0.24 | 0.23 | 0.26 | 0.17 | 0.19 | 0.20 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | 0.50 | 0.50 | 0.50 | <0.2 | <0.2 | <0.2 | 9.30 | 1.60 | 1.90 | 0.30 | 0.30 | 0.30 |
| Sulphate | 322.00 | 193.00 | 101.00 | 83.40 | 74.60 | 92.10 | 713.00 | 601.00 | 580.00 | 306.00 | 380.00 | 328.00 |
| Sulphur (Elemental) | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 |
| Sulphide | <0.005 | 0.0050 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0060 | 0.013 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 81.00 | 110.00 | 110.00 | 750.00 | 1000.00 | 930.00 | 700.00 | 680.00 | 580.00 | 170.00 | 160.00 | 150.00 |
| Ammonium as NH4 | 44.00 | 46.00 | 42.00 | <0.015 | <0.015 | <0.015 | 640.00 | 680.00 | 630.00 | 76.00 | 68.00 | 68.00 |
| Ammoniacal N (total) as N | 34.22 | 35.78 | 32.67 | <0.011667 | <0.011667 | <0.011667 | 497.79 | 528.90 | 490.01 | 59.11 | 52.89 | 52.89 |
| Un-ionised ammonia as nitrogen (NH3 as N) | 34.22 | 35.78 | 32.67 | <0.011667 | <0.011667 | <0.011667 | 497.79 | 528.90 | 490.01 | 59.11 | 52.89 | 52.89 |
| Total Organic Carbon (TOC) | 23.30 | 26.10 | 26.90 | 2.46 | 2.89 | 2.97 | 253.00 | 264.00 | 212.00 | 19.10 | 16.50 | 20.90 |
| Alkalinity as CaCO3 | 440.00 | 540.00 | 640.00 | 230.00 | 260.00 | 270.00 | 1000.00 | 1200.00 | 1000.00 | 560.00 | 480.00 | 550.00 |
| Dissolved Organic Carbon (DOC) | 21.70 | 24.10 | 24.80 | 2.44 | 2.84 | 2.75 | 207.00 | 235.00 | 195.00 | 15.80 | 15.90 | 18.60 |
| Total Suspended Solids | 390.00 | 370.00 | 150.00 | 8.60 | 29.00 | 11.00 | 100.00 | 850.00 | 58.00 | 150.00 | 63.00 | 150.00 |
| Hardness - Total | 304.00 | 400.00 | 355.00 | 201.00 | 294.00 | 316.00 | 245.00 | 244.00 | 231.00 | 496.00 | 574.00 | 527.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 10.00 | 14.00 | 7.40 | 0.15 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | 0.26 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | | | | | | | | | | | | |
| Cresols (Total) | <0.0005 | 2.30 | 3.10 | <0.0005 | <0.0005 | <0.0005 | 49.00 | 50.00 | 48.00 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | 0.78 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | 1.30 | 2.50 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 10.00 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | 0.56 | 0.91 | 1.20 | <0.0005 | <0.0005 | <0.0005 | 9.50 | 56.00 | 14.00 | 0.31 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | 2.70 | 3.10 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 12.00 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | 0.56 | 13.00 | 16.00 | <0.0035 | <0.0035 | <0.0035 | 130.00 | 190.00 | 150.00 | 0.46 | <0.0035 | <0.0035 |
| Total Xylenols & Ethylphenols | <0.0005 | 4.60 | 5.90 | <0.0005 | <0.0005 | <0.0005 | 60.00000 | 66.00000 | 59.00 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | 0.57 | 2.40 | 1.10 | 0.00032 | <0.00001 | 0.00029 | 4.10 | 2.70 | 3.60 | 0.060 | 0.20 | 0.23 |
| Acenaphthylene | 0.029 | 0.034 | 0.022 | <0.00001 | <0.00001 | <0.00001 | 0.043 | 0.035 | 0.025 | 0.0013 | 0.0012 | <0.00001 |
| Acenaphthene | 0.0054 | 0.0066 | 0.0039 | <0.00001 | <0.00001 | 0.00012 | 0.013 | 0.013 | 0.0076 | 0.0083 | 0.0077 | 0.0060 |
| Fluorene | 0.0054 | 0.0075 | 0.0046 | <0.00001 | <0.00001 | 0.00010 | 0.0070 | 0.0080 | 0.0038 | 0.0015 | 0.0017 | 0.0013 |
| Phenanthrene | 0.0040 | 0.0074 | 0.0015 | <0.00001 | <0.00001 | <0.00001 | 0.0056 | 0.0087 | 0.0028 | 0.00087 | 0.0014 | 0.0011 |
| Anthracene | <<0.00010 & | <<0.00010 & | 0.0010 | <0.00001 | <0.00001 | <0.00001 | 0.0012 | 0.0021 | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Fluoranthene | 0.0013 | 0.0041 | 0.0011 | <0.00001 | <0.00001 | <0.00001 | 0.0018 | 0.0043 | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Pyrene | 0.00096 | 0.0031 | 0.00085 | <0.00001 | <0.00001 | <0.00001 | 0.0013 | 0.0031 | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Benzo[a]anthracene | 0.00037 | 0.0014 | 0.00026 | <0.00001 | <0.00001 | 0.00015 | 0.00078 | 0.0011 | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Chrysene | 0.00022 | 0.0011 | 0.00019 | <0.00001 | <0.00001 | 0.00022 | 0.00041 | 0.00097 | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Benzo[b]fluoranthene | <<0.00010 & | 0.0011 | <0.00001 | <0.00001 | <0.00001 | 0.00015 | <<0.00040 & | 0.0010 | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Benzo[k]fluoranthene | <<0.00010 & | 0.00052 | <0.00001 | <0.00001 | <0.00001 | 0.00025 | <<0.00040 & | 0.00034 | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Benzo[a]pyrene | <<0.00010 & | 0.0011 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00040 & | 0.00085 | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Indeno[1,2,3-cd]pyrene | <<0.00010 & | 0.00053 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00040 & | 0.00049 | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Dibenz(a,h)anthracene | <<0.00010 & | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00040 & | <<0.00010 & | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Benzo[ghi]perylene | <<0.00010 & | 0.00049 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00040 & | 0.00053 | <0.00001 | <<0.00010 & | <<0.00010 & | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | | 0.00162 | <0.00002 | <0.00002 | <0.00002 | 0.0004 | | 0.00134 | <0.00002 | | | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | | 0.00264 | <0.00004 | <0.00004 | <0.00004 | <0.00028 | | 0.00221 | <0.00004 | | | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | | 0.00102 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | | 0.00102 | <0.00002 | | | <0.00002 |
| PAH 16 Total | 0.62 | 2.50 | 1.10 | 0.00032 | <0.00016 | 0.0013 | 4.10 | 2.80 | 3.60 | 0.072 | 0.21 | 0.24 |
| Calcium | 92.00 | 130.00 | 110.00 | 66.00 | 97.00 | 110.00 | 55.00 | 57.00 | 56.00 | 150.00 | 170.00 | 160.00 |
| Iron | 1.20 | 0.20 | 0.18 | 0.0060 | <0.004 | <0.004 | 2.40 | 1.80 | 1.30 | 0.14 | 0.18 | 0.14 |
| Magnesium | | | | | | | | | | | | |
| Arsenic | 0.0047 | 0.0057 | 0.0065 | 0.00071 | 0.00062 | 0.00067 | 0.012 | 0.0084 | 0.0089 | 0.0012 | 0.00092 | 0.0012 |
| Cadmium | 0.000030 | <0.00002 | <0.00002 | 0.000090 | 0.00014 | 0.00013 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | U/S *U/S j | U/S *U/S g | U/S *U/S | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.0011 | <0.0002 | 0.00052 | 0.00041 | 0.00048 | <0.0002 | 0.0064 | 0.0059 | 0.0062 | 0.00033 | <0.0002 | <0.0002 |
| Copper | 0.0016 | 0.0049 | 0.0016 | 0.0031 | 0.0030 | 0.0033 | 0.0050 | 0.0025 | 0.0012 | 0.0010 | 0.0029 | 0.00090 |
| Lead | 0.00080 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00030 | 0.00030 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | 0.000060 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0064 | 0.0032 | 0.0026 | 0.0012 | 0.0014 | 0.0014 | 0.0037 | 0.0041 | 0.0020 | 0.0011 | 0.00060 | 0.00090 |
| Selenium | 0.0065 | 0.0010 | 0.00090 | 0.0023 | 0.0024 | 0.0023 | 0.0065 | 0.0047 | 0.0040 | 0.0015 | 0.00090 | 0.00090 |
| Zinc | 0.0031 | 0.0022 | 0.0027 | 0.0063 | 0.0020 | 0.0030 | 0.019 | 0.00080 | 0.0013 | 0.0026 | 0.0024 | 0.0018 |
| Benzene | 0.74 | 0.90 | 3.00 | <0.001 | <0.001 | <0.001 | 3.40 | 1.40 | 3.70 | 1.80 | 0.44 | 1.20 |
| Toluene | 0.23 | 0.22 | 0.88 | <0.001 | <0.001 | <0.001 | 1.50 | 0.63 | 1.80 | 0.036 | <0.001 | <0.001 |
| Ethylbenzene | 0.027 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.15 | 0.064 | 0.23 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | 0.15 | 0.17 | 0.66 | <0.001 | <0.001 | <0.001 | 0.76 | 0.28 | 1.0 | 0.041 | <0.001 | 0.013 |
| Xylene (o-Xylene) | 0.10 | 0.12 | 0.45 | <0.001 | <0.001 | <0.001 | 0.49 | 0.20 | 0.65 | 0.070 | 0.018 | 0.046 |
| Xylenes (Total of m and p, o-xylenes) | 0.25 | 0.29 | 1.11 | <0.002 | <0.002 | <0.002 | 1.25 | 0.48 | 1.65 | 0.111 | <0.019 | 0.059 |
| Methyl tert-butyl ether | <0.003 | | | <0.003 | | | <0.003 | <0.003 | <0.003 | <0.003 | | |
| TPH (C10 - C40) | 13.2 | 20.3 | | <0.01 | <0.01 | <0.01 | 166 | 137 | | 10.4 | 8.67 | 5.48 |
| TPH Total C5 - C35 | 14.30 | 21.70 | 32.60 | <0.01 | <0.01 | <0.01 | 172.00 | 140.00 | 203.00 | 12.40 | 9.13 | 6.79 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <<0.40 & | 2.08 | 3.11 | <<0.10 & | <<0.10 & | <0.01 |
| Aliphatic C12 – C16 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <<0.40 & | 0.54 | 0.62 | <<0.10 & | <<0.10 & | <0.01 |
| Aliphatic C16 - C21 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <<0.40 & | <0.2 | 0.070 | <<0.10 & | <<0.10 & | <0.01 |
| Aliphatic C21 - C35 | <<0.10 & | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <<0.40 & | <<0.20 & | 0.13 | <0.1 | <<0.10 & | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | | 2.62 | 3.92 | | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.62 | 3.92 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | 0.73 | 0.90 | 2.90 | <0.001 | <0.001 | <0.001 | 3.40 | 1.40 | 3.70 | 1.80 | 0.44 | 1.20 |
| Aromatic C7 - C8 | 0.23 | 0.22 | 0.89 | <0.001 | <0.001 | <0.001 | 1.50 | 0.62 | 1.80 | 0.037 | <0.001 | <0.001 |
| Aromatic C8 – C10 | 0.29 | 0.30 | 1.10 | <0.001 | <0.001 | <0.001 | 1.40 | 0.55 | 2.00 | 0.11 | 0.024 | 0.061 |
| Aromatic C10 – C12 | 8.12 | 13.00 | 16.70 | <0.01 | <0.01 | <0.01 | 139.00 | 110.00 | 156.00 | 4.94 | 4.13 | 2.85 |
| Aromatic C12 – C16 | 3.89 | 5.77 | 9.26 | <0.01 | <0.01 | <0.01 | 23.90 | 22.80 | 33.70 | 4.78 | 3.71 | 2.63 |
| Aromatic C16 – C21 | 0.47 | 1.01 | 1.26 | <0.01 | <0.01 | <0.01 | 0.74 | 0.85 | 1.25 | 0.19 | 0.21 | <0.01 |
| Aromatic C21 – C35 | 0.61 | 0.50 | 0.43 | <0.01 | <0.01 | <0.01 | 2.36 | 1.35 | 1.33 | 0.54 | 0.62 | <0.01 |
| Total Aromatic C10 - C35 | 13.10 | 20.30 | 27.70 | | <0.01 | <0.01 | | 135.00 | 192.00 | | 8.67 | 5.48 |
| Total Aromatic C5 - C35 | 14.30 | 21.70 | 32.60 | <0.01 | <0.01 | <0.01 | 172.00 | 137.00 | 199.00 | 12.40 | 9.13 | 6.79 |

# Table F: Groundwater Analytical Data - Area B

**NUMBER OF SAMPLES: 121**

| Analytical Parameter | Units | Limit of detection | CRITERIA 1: Environmental Quality Standards for freshwater surface waters | CRITERIA 2: Combined Drinking Water Screening values | No. Analyses | Exceedances (CRITERIA 1) | Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | pH Units | N/A | 6-9 | 6.5<9.5 | 121 | 12 | 12 | 6.8 | 7.6 | 11.500 | MW25-22 |
| Conductivity | µS.cm$^{-1}$ | 10 | | 2500 | 121 | | 36 | 640 | 2513.6 | 7200 | MW25-17 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.01 | | 0.05 | 121 | | 90 | <0.01 | <0.77 | 8.6 | MW25-10 |
| Complexed cyanide | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.77 | 8.5 | MW25-10 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 | 0.001 | 0.05 | 121 | 14 | 1 | <0.01 | <0.01 | 0.07 | MW25-14 |
| Thiocyanate | mg.L$^{-1}$ | 0.2 | | | 121 | | | <0.2 | <0.8 | 12 | MW25-14 |
| Sulphate | mg.L$^{-1}$ | 0.045 | 400 | 250 | 121 | 62 | 84 | 29.9 | 545.662 | 2220 | MW25-17 |
| Sulphur (Elemental) | mg.L$^{-1}$ | 0.02 | | | 80 | | | <0.02 | <0.02 | 0.04 | CBH102 |
| Sulphide | mg.L$^{-1}$ | 0.005 | | | 121 | | | <0.005 | <0.176 | 5.9 | MW25-17 |
| Chloride | mg.L$^{-1}$ | 0.15 | 250 | 250 | 121 | 63 | 63 | 27 | 446.72 | 1900 | MW25-17 |
| Ammonium as NH4 | mg.L$^{-1}$ | 0.015 | | 0.5 | 121 | | 102 | <0.015 | <54.093 | 680 | MW25-27 |
| Ammoniacal N (total) as N | mg.L$^{-1}$ | 0.011667 | 1.1 | | 121 | 92 | | <0.011667 | <42.0734 97 | 528.904 | MW25-27 |
| Un-ionised ammonia as nitrogen (NH3 as N) | mg.L$^{-1}$ | 0.011667 | | | 121 | | | <0.011667 | <42.0734 97 | 528.904 | MW25-27 |
| Total Organic Carbon (TOC) | mg.L$^{-1}$ | 0.1 | | | 121 | | | 2.46 | 23.7 | 264 | MW25-27 |
| Alkalinity as CaCO3 | mg.L$^{-1}$ | 3 | | | 121 | | | 50 | 379.4 | 1200 | MW25-27 |
| Dissolved Organic Carbon (DOC) | mg.L$^{-1}$ | 0.1 | | | 121 | | | 2.44 | 21.3 | 235 | MW25-27 |
| Total Suspended Solids | mg.L$^{-1}$ | 2 | | | 121 | | | <2 | <1193.9 | 110000 | CBH129 |
| Hardness - Total | mqCaCO.L$^{-1}$ | 1 | | | 121 | | | 201 | 694.2 | 2520 | MW25-08 |
| Catechol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.2783 | 14 | MW25-27 |
| Resorcinol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.0179 | 0.48 | MW25-23B |
| Ethylphenol & Dimethylphenol | mg.L$^{-1}$ | | | | | | | | | | |
| Cresols (Total) | mg.L$^{-1}$ | 0.0005 | 0.1 | | 121 | 15 | | <0.0005 | <1.3943 | 50 | MW25-27 |
| Naphthols | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.0558 | 2.2 | MW25-23B |
| Isopropylphenol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.1477 | 10 | MW25-27 |
| Phenol | mg.L$^{-1}$ | 0.0005 | 0.0077 | | 121 | 39 | | <0.0005 | <0.9463 | 56 | MW25-27 |
| Trimethylphenol | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.5489 | 16 | MW25-23B |
| Phenols (Total) | mg.L$^{-1}$ | 0.0035 | | | 121 | | | <0.0035 | <5.9229 | 190 | MW25-27 |
| Total Xylenols & Ethylphenols | mg.L$^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <2.4998 | 66 | MW25-27 |
| Naphthalene | mg.L$^{-1}$ | 0.00001 | 0.002 | | 121 | 55 | | <0.00001 | <0.46322 | 6.8 | MW25-23B |
| Acenaphthylene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.02575 | 0.57 | MW25-23B |
| Acenaphthene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00578 | 0.12 | MW25-16A-S |
| Fluorene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.01219 | 0.39 | MW25-16A-S |
| Phenanthrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.02357 | 1.1 | MW25-16A-S |
| Anthracene | mg.L$^{-1}$ | 0.00001 | 0.0001 | | 121 | 29 | | <0.00001 | <0.00742 | 0.36 | MW25-16A-S |
| Fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.0000063 | | 121 | 52 | | <0.00001 | <0.01337 | 0.81 | MW25-16A-S |
| Pyrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.01045 | 0.62 | MW25-16A-S |
| Benzo[a]anthracene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00473 | 0.29 | MW25-16A-S |
| Chrysene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00328 | 0.25 | MW25-16A-S |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 121 | 17 | | <0.00001 | <0.00342 | 0.28 | MW25-16A-S |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 121 | 17 | | <0.00001 | <0.00161 | 0.13 | MW25-16A-S |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 | 0.00000017 | 0.00001 | 121 | 18 | 18 | <0.00001 | <0.0034 | 0.27 | MW25-16A-S |
| Indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00148 | 0.12 | MW25-16A-S |
| Dibenz(a,h)anthracene | mg.L$^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00004 | 0.0032 | MW25-23B |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00001 | 0.0000082 | | 121 | 21 | | <0.00001 | <0.00159 | 0.13 | MW25-16A-S |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00002 | | | 121 | | | <0.00002 | <0.00504 | 0.41 | n/a |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00004 | | 0.0001 | 121 | | 16 | <0.00004 | <0.00801 | 0.65 | n/a |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00002 | | | 121 | | | <0.00002 | <0.00307 | 0.25 | n/a |
| PAH 16 Total | mg.L$^{-1}$ | 0.00016 | | | 121 | | | <0.00016 | <0.58256 | 9.8 | MW25-23B |
| Calcium | mg.L$^{-1}$ | 0.012 | | | 119 | | | 55 | 222.815 | 830 | MW25-08 |
| Iron | mg.L$^{-1}$ | 0.004 | 1 | 0.2 | 121 | 20 | 65 | <0.004 | <0.529 | 4.4 | MW25-10 |
| Magnesium | mg.L$^{-1}$ | | | | | | | | | | |
| Arsenic | mg.L$^{-1}$ | 0.00015 | 0.05 | 0.01 | 121 | 6 | 26 | 0.00035 | 0.00884 | 0.088 | MW25-10 |
| Cadmium | mg.L$^{-1}$ | 0.00002 | 0.00025 | 0.005 | 121 | 9 | 0 | <0.00002 | <0.00008 | 0.00073 | CBH124 |
| Chromium (VI) | mg.L$^{-1}$ | 0.005 | 0.0034 | | 121 | 0 | | <0.005 | <0.005 | <0.005 | n/a |
| Chromium (Total) | mg.L$^{-1}$ | 0.0002 | 0.0034 | 0.05 | 121 | 4 | 0 | <0.0002 | <0.0007 | 0.0064 | MW25-27 |
| Copper | mg.L$^{-1}$ | 0.0005 | 0.001 | 2 | 121 | 106 | 0 | <0.0005 | <0.0033 | 0.017 | CBH108-DUP |
| Lead | mg.L$^{-1}$ | 0.0002 | 0.0012 | 0.01 | 121 | 2 | 0 | <0.0002 | <0.0003 | 0.0052 | CBH104 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00005 | 0.00007 | 0.001 | 121 | 9 | 3 | <0.00005 | <0.0001 | 0.00199 | MW25-17 |
| Nickel | mg.L$^{-1}$ | 0.0005 | 0.004 | 0.02 | 121 | 69 | 2 | 0.0006 | 0.0056 | 0.023 | MW25-17 |
| Selenium | mg.L$^{-1}$ | 0.0006 | | 0.01 | 121 | | 2 | <0.0006 | <0.0026 | 0.015 | MW25-14 |
| Zinc | mg.L$^{-1}$ | 0.0005 | 0.0123 | | 121 | 15 | | 0.0006 | 0.006 | 0.0499 | CBH104 |
| Benzene | mg.L$^{-1}$ | 0.001 | 0.01 | 0.001 | 121 | 37 | 38 | <0.001 | <0.855 | 22 | MW25-23B |
| Toluene | mg.L$^{-1}$ | 0.001 | 0.074 | 0.7 | 121 | 23 | 9 | <0.001 | <0.411 | 14 | MW25-23B |
| Ethylbenzene | mg.L$^{-1}$ | 0.001 | 0.02 | 0.3 | 121 | 18 | 2 | <0.001 | <0.023 | 0.39 | MW25-10 |
| Xylene (p & m-Xylene) | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.149 | 4.1 | MW25-23B |
| Xylene (o-Xylene) | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.088 | 2 | MW25-23B |
| Xylenes (Total of m and p, o-xylenes) | mg.L$^{-1}$ | 0.002 | 0.03 | 0.5 | 121 | 34 | 13 | <0.002 | <0.237 | 6.1 | n/a |
| Methyl tert-butyl ether | mg.L$^{-1}$ | 0.003 | | | 55 | | | <0.003 | <0.003 | <0.003 | n/a |
| TPH (C10 - C40) | mg.L$^{-1}$ | 0.01 | | | 108 | | | <0.01 | <6.63 | 166 | MW25-27 |
| TPH Total C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <10.31 | 203 | MW25-27 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 0.001 | | 15 | 121 | | 0 | <0.001 | <0.001 | <0.001 | n/a |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 0.001 | | 15 | 121 | | 0 | <0.001 | <0.001 | 0.061 | MW25-33 |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | 0.3 | 121 | | 0 | <0.001 | <0.001 | 0.03 | MW25-33 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.3 | 121 | | 4 | <0.01 | <0.07 | 3.11 | MW25-27 |
| Aliphatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.03 | 0.62 | MW25-27 |
| Aliphatic C16 - C21 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.02 | 0.32 | CBH129 |
| Aliphatic C21 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.02 | 0.7 | CBH129 |
| Total Aliphatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 107 | | | <0.01 | <0.12 | 3.92 | MW25-27 |
| Total Aliphatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.11 | 3.92 | MW25-27 |
| Aromatic C5 - C7 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.846 | 22 | MW25-23B |
| Aromatic C7 - C8 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.412 | 14 | MW25-23B |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.266 | 6.6 | MW25-23B |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 50 | <0.01 | <6.02 | 156 | MW25-27 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 52 | <0.01 | <1.89 | 33.7 | MW25-27 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 47 | <0.01 | <0.41 | 9.17 | MW25-23B |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | 0.09 | 121 | | 51 | <0.01 | <0.38 | 8 | MW25-16A-S |
| Total Aromatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 107 | | | <0.01 | <6.94 | 192 | MW25-27 |
| Total Aromatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 121 | | | <0.01 | <10.19 | 199 | MW25-27 |

| Analytical Parameter | Meter house | Meter house | Meter house | Benzol washer | Benzol washer | Benzol washer | Tank | Tank | Tank | Managers House | Managers House | Managers House |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | MW25-31A | MW25-31A | MW25-31A | MW25-32 | MW25-32 | MW25-32 | MW25-34 | MW25-34 | MW25-34 | CBH129 | CBH129 | CBH129 |
| Monitoring Round No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Date Sampled | 18/03/2025 | 08/04/2025 | 29/04/2025 | 18/03/2025 | 08/04/2025 | 30/04/2025 | 19/03/2025 | 10/04/2025 | 30/04/2025 | 19/03/2025 | 10/04/2025 | 30/04/2025 |
| Stratum | Boulder Clay/Wolston Sand & Gravel | | | Boulder Clay/Wolston Sand & Gravel | | | Wolston Sand & Gravel | | | Wolston Sand & Gravel | | |
| pH | 7.30 | 7.70 | 7.30 | 8.10 | 8.10 | 8.00 | 7.40 | 7.30 | 7.40 | 7.10 | 7.40 | 7.20 |
| Conductivity | 1000.00 | 1000.00 | 1100.00 | 2800.00 | 3600.00 | 2900.00 | 1200.00 | 1400.00 | 1500.00 | 1400.00 | 1500.00 | 1600.00 |
| Cyanide (Total) (as CN) | 0.040 | 0.040 | 0.050 | 0.050 | 0.050 | 0.060 | 0.060 | 0.030 | 0.040 | 0.010 | <0.01 | <0.01 |
| Complexed cyanide | 0.040 | 0.040 | 0.050 | 0.050 | 0.050 | 0.060 | 0.060 | 0.030 | 0.040 | 0.010 | <0.01 | <0.01 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | <0.2 | <0.2 | <0.2 | 0.20 | <0.2 | 0.20 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | I/S *I/S |
| Sulphate | 207.00 | 219.00 | 204.00 | 1560.00 | 1870.00 | 1240.00 | 147.00 | 210.00 | 203.00 | 448.00 | 523.00 | 528.00 |
| Sulphur (Elemental) | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 59.00 | 68.00 | 80.00 | 84.00 | 90.00 | 100.00 | 140.00 | 220.00 | 250.00 | 52.00 | 56.00 | I/S *I/S |
| Ammonium as NH4 | 0.94 | 1.20 | 1.60 | 240.00 | 360.00 | 260.00 | 3.60 | 0.94 | 0.55 | 0.015 | <0.015 | I/S *I/S |
| Ammoniacal N (total) as N | 0.73 | 0.93 | 1.24 | 186.67 | 280.01 | 202.23 | 2.80 | 0.73 | 0.43 | 0.012 | <0.011667 | |
| Un-ionised ammonia as nitrogen (NH3 as N) | 0.73 | 0.93 | 1.24 | 186.67 | 280.01 | 202.23 | 2.80 | 0.73 | 0.43 | 0.012 | <0.011667 | |
| Total Organic Carbon (TOC) | 4.20 | 2.99 | 3.58 | 7.46 | 7.50 | 6.66 | 7.12 | 4.00 | 3.92 | 3.78 | 10.30 | I/S *I/S |
| Alkalinity as CaCO3 | 340.00 | 320.00 | 340.00 | 190.00 | 200.00 | 240.00 | 350.00 | 270.00 | 260.00 | 380.00 | 340.00 | I/S *I/S |
| Dissolved Organic Carbon (DOC) | 4.09 | 2.96 | 3.54 | 7.09 | 7.37 | 6.62 | 7.06 | 4.00 | 3.87 | 3.55 | 9.43 | I/S *I/S |
| Total Suspended Solids | 460.00 | 31.00 | 72.00 | 540.00 | 520.00 | 180.00 | 46.00 | 24.00 | 42.00 | 160.00 | 110000.00 | I/S *I/S |
| Hardness - Total | 496.00 | 482.00 | 530.00 | 569.00 | 700.00 | 532.00 | 347.00 | 410.00 | 391.00 | 674.00 | 850.00 | 985.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | | | | | | | | | | | | |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | 0.011 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | <0.0035 | 0.030 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Total Xylenols & Ethylphenols | <0.0005 | 0.02000 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | <0.00001 | <0.00001 | 0.0030 | 0.00028 | <0.00001 | 0.0022 | 0.14 | 0.0091 | <0.00001 | <0.00001 | 0.0057 | 0.0025 |
| Acenaphthylene | <0.00001 | <0.00001 | 0.000080 | <0.00001 | <0.00001 | 0.000050 | 0.020 | 0.0065 | 0.00012 | <0.00001 | 0.0086 | 0.0013 |
| Acenaphthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0068 | 0.0054 | 0.00062 | 0.00012 | 0.00048 | <0.00001 |
| Fluorene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0048 | 0.0033 | 0.00082 | <0.00001 | 0.0022 | 0.00036 |
| Phenanthrene | <0.00001 | <0.00001 | <0.00001 | 0.000030 | <0.00001 | <0.00001 | 0.0033 | 0.0019 | 0.00016 | <0.00001 | 0.0068 | 0.0014 |
| Anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00084 | 0.00036 | <0.00001 | <0.00001 | 0.0035 | 0.00068 |
| Fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00041 | <0.00001 | 0.000090 | <0.00001 | 0.012 | 0.0020 |
| Pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00045 | 0.00015 | 0.000090 | <0.00001 | 0.012 | 0.0022 |
| Benzo[a]anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0096 | 0.0014 |
| Chrysene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0095 | 0.0015 |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.013 | 0.0022 |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0062 | 0.00079 |
| Benzo[a]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.015 | 0.0022 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0061 | 0.0010 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.0066 | 0.0012 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.0192 | 0.00299 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | 0.0339 | 0.00519 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.0127 | 0.0022 |
| PAH 16 Total | <0.00016 | <0.00016 | 0.0031 | 0.00031 | <0.00016 | 0.0022 | 0.17 | 0.027 | 0.0019 | <0.00016 | 0.12 | 0.021 |
| Calcium | 130.00 | 130.00 | 140.00 | 150.00 | 180.00 | 130.00 | 110.00 | 120.00 | 120.00 | 180.00 | 210.00 | 260.00 |
| Iron | 0.032 | 0.020 | 0.031 | 0.047 | 0.027 | 0.032 | 0.11 | 0.060 | 0.081 | 0.014 | 0.11 | 0.047 |
| Magnesium | | | | | | | | | | | | |
| Arsenic | 0.00078 | 0.00073 | 0.00044 | 0.0013 | 0.0021 | 0.0013 | 0.013 | 0.0037 | 0.0012 | 0.00079 | 0.00081 | 0.00098 |
| Cadmium | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.000060 | 0.00015 | 0.00010 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.00038 | 0.00049 | <0.0002 | <0.0002 | 0.00049 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00024 | <0.0002 | <0.0002 |
| Copper | 0.0013 | 0.0027 | 0.0031 | 0.0025 | 0.0029 | 0.0028 | <0.0005 | 0.0022 | 0.0024 | 0.0027 | 0.0031 | 0.0015 |
| Lead | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00020 | 0.00030 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | 0.000050 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0019 | 0.0017 | 0.0013 | 0.0014 | 0.0019 | 0.0011 | 0.0027 | 0.0015 | 0.0037 | 0.0056 | 0.0071 | 0.0071 |
| Selenium | <0.0006 | <0.0006 | <0.0006 | 0.0012 | 0.00070 | 0.00070 | 0.0012 | 0.00060 | 0.0013 | <0.0006 | 0.0013 | 0.00060 |
| Zinc | 0.0031 | 0.0025 | 0.0025 | 0.0011 | 0.0021 | 0.0011 | 0.0030 | 0.00080 | 0.0012 | 0.0028 | 0.0023 | 0.0023 |
| Benzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.098 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.014 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.015 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.016 | 0.0010 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.031 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Methyl tert-butyl ether | <0.003 | | | <0.003 | | | <0.003 | | | <0.003 | | |
| TPH (C10 - C40) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.81 | 0.69 | | <0.01 | 2.3 | |
| TPH Total C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.05 | 0.69 | 0.27 | <0.01 | 2.30 | 0.63 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.039 | <0.01 |
| Aliphatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.20 | 0.020 |
| Aliphatic C16 - C21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.32 | 0.030 |
| Aliphatic C21 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.70 | 0.050 |
| Total Aliphatic C10 - C35 | | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.30 | 0.10 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.30 | 0.10 |
| Aromatic C5 - C7 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.097 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.034 | 0.0024 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1.41 | 0.38 | 0.10 | <0.01 | 0.015 | 0.010 |
| Aromatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.38 | 0.25 | 0.14 | <0.01 | 0.12 | 0.050 |
| Aromatic C16 – C21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.010 | 0.050 | 0.030 | <0.01 | 0.16 | 0.040 |
| Aromatic C21 – C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.44 | 0.43 |
| Total Aromatic C10 - C35 | | <0.01 | <0.01 | | <0.01 | <0.01 | 1.81 | 0.69 | 0.27 | <0.01 | 0.73 | 0.53 |
| Total Aromatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 2.05 | 0.69 | 0.27 | <0.01 | 0.73 | 0.53 |

| Analytical Parameter | Former feature | Former feature | Former feature | Former feature | Former feature | Former feature | Former feature | Former feature | Former feature | - | - | - | - |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Location | CBH124 | CBH124 | CBH124 | CBH126 | CBH126 | CBH126 | MW25-15C | MW25-15C | MW25-15C | CBH102 | CBH102 | CBH104 | CBH104 |
| Monitoring Round No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 2 |
| Date Sampled | 19/03/2025 | 10/04/2025 | 30/04/2025 | 19/03/2025 | 10/04/2025 | 30/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 | 17/03/2025 | 08/04/2025 | 17/03/2025 | 08/04/2025 |
| Stratum | Wolston Sand & Gravel | | | Wolston Sand & Gravel | | | Boulder Clay/Wolston Sand & Gravel | | | Wolston Sand and Gravel | | | Made Ground |
| pH | 7.00 | 7.00 | 6.90 | 7.10 | 7.10 | 7.00 | 7.30 | 7.30 | 7.20 | 7.00 | 7.00 | 7.20 | 7.10 |
| Conductivity | 2400.00 | 2400.00 | 2500.00 | 1600.00 | 1700.00 | 1800.00 | 2700.00 | 2600.00 | 2600.00 | 2100.00 | 1600.00 | 3800.00 | 3600.00 |
| Cyanide (Total) (as CN) | <0.01 | <0.01 | <0.01 | 0.10 | 0.10 | 0.12 | 1.10 | 0.73 | 0.58 | 0.45 | 0.27 | 0.23 | 0.21 |
| Complexed cyanide | <0.01 | <0.01 | <0.01 | 0.10 | 0.10 | 0.12 | 1.10 | 0.73 | 0.58 | 0.45 | 0.27 | 0.23 | 0.21 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | <0.2 | <0.2 | <0.2 | <0.2 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | <0.2 | 0.30 | 0.20 | 0.30 |
| Sulphate | 699.00 | 693.00 | 684.00 | 29.90 | 33.40 | 202.00 | 874.00 | 667.00 | 477.00 | 547.00 | 237.00 | 690.00 | 594.00 |
| Sulphur (Elemental) | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | 0.040 | | <0.02 | |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.057 | <0.005 | <0.005 |
| Chloride | 330.00 | 340.00 | 340.00 | 180.00 | 180.00 | 150.00 | 460.00 | 490.00 | 500.00 | 340.00 | 250.00 | 930.00 | 900.00 |
| Ammonium as NH4 | 42.00 | 28.00 | 21.00 | 30.00 | 32.00 | 32.00 | 7.40 | 7.40 | 11.00 | 1.10 | 3.90 | 0.11 | 0.19 |
| Ammoniacal N (total) as N | 32.67 | 21.78 | 16.33 | 23.33 | 24.89 | 24.89 | 5.76 | 5.76 | 8.56 | 0.86 | 3.03 | 0.086 | 0.15 |
| Un-ionised ammonia as nitrogen (NH3 as N) | 32.67 | 21.78 | 16.33 | 23.33 | 24.89 | 24.89 | 5.76 | 5.76 | 8.56 | 0.86 | 3.03 | 0.086 | 0.15 |
| Total Organic Carbon (TOC) | 5.09 | 3.47 | 3.19 | 24.20 | 25.60 | 29.40 | 5.23 | 4.88 | 4.28 | 6.94 | 44.20 | 6.95 | 7.15 |
| Alkalinity as CaCO3 | 340.00 | 310.00 | 320.00 | 650.00 | 760.00 | 790.00 | 280.00 | 310.00 | 300.00 | 290.00 | 370.00 | 510.00 | 480.00 |
| Dissolved Organic Carbon (DOC) | 4.95 | 3.25 | 3.11 | 22.20 | 24.70 | 26.80 | 5.12 | 4.71 | 4.20 | 6.62 | 40.00 | 6.65 | 6.35 |
| Total Suspended Solids | 12.00 | 18.00 | 32.00 | 34.00 | 19.00 | 25.00 | 450.00 | 85.00 | 64.00 | 82.00 | 150.00 | 69.00 | 360.00 |
| Hardness - Total | 1190.00 | 1240.00 | 1430.00 | 673.00 | 629.00 | 809.00 | 978.00 | 667.00 | 626.00 | 629.00 | 432.00 | 1090.00 | 1300.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.095 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | 0.29 | 0.34 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | | | | | | | | | | | | | |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.48 | <0.0005 | <0.0005 | 0.49 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | 0.11 | <0.0005 | <0.0005 | 0.21 | 0.33 | <0.0005 | 0.11 | 0.67 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | 0.11 | <0.0035 | <0.0035 | 0.49 | 7.70 | 2.90 | 0.11 | 1.20 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 6.40000 | 2.90000 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | <0.00001 | 0.0034 | <0.00001 | <0.00001 | 1.30 | 0.18 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthylene | <0.00001 | 0.00014 | <0.00001 | 0.025 | 0.035 | 0.030 | <0.00001 | <0.00001 | <0.00001 | 0.000080 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | <0.00001 | <0.00001 | <0.00001 | 0.013 | 0.014 | 0.011 | <0.00001 | <0.00001 | <0.00001 | 0.00010 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | <0.00001 | <0.00001 | <0.00001 | 0.0027 | 0.0028 | 0.0029 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | <0.00001 | 0.00013 | <0.00001 | 0.00071 | 0.0011 | 0.0010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | 0.00015 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000070 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | <0.00001 | <0.00001 | <0.00001 | 0.00019 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000080 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <<0.00010 & | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | <0.00004 | <0.00004 | <0.00004 | <0.00004 | | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| PAH 16 Total | <0.00016 | 0.0037 | <0.00016 | 0.042 | 1.40 | 0.23 | <0.00016 | <0.00016 | <0.00016 | 0.00033 | <0.00016 | <0.00016 | <0.00016 |
| Calcium | 320.00 | 320.00 | 430.00 | 220.00 | 190.00 | 280.00 | 340.00 | 230.00 | 220.00 | 220.00 | 150.00 | 370.00 | 420.00 |
| Iron | 0.0050 | 0.0070 | <0.004 | 2.90 | 1.10 | 0.34 | 0.50 | 0.32 | 0.27 | 0.21 | 0.99 | 0.11 | 0.32 |
| Magnesium | | | | | | | | | | | | | |
| Arsenic | 0.0011 | 0.00090 | 0.00066 | 0.014 | 0.0060 | 0.0046 | 0.00074 | 0.00074 | 0.00044 | 0.00095 | 0.0060 | 0.00063 | 0.00079 |
| Cadmium | 0.00073 | 0.00049 | 0.00053 | <0.00002 | <0.00002 | <0.00002 | 0.00018 | 0.00013 | 0.00010 | 0.000040 | 0.000030 | 0.00028 | 0.00050 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | <0.0002 | 0.00051 | <0.0002 | 0.00026 | <0.0002 | <0.0002 | 0.00059 | <0.0002 | <0.0002 | 0.00049 | 0.0018 | 0.00050 | <0.0002 |
| Copper | 0.0029 | 0.0050 | 0.0033 | 0.00050 | 0.0016 | 0.0013 | 0.0035 | 0.0032 | 0.0030 | 0.0030 | 0.0046 | 0.0060 | 0.0060 |
| Lead | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00040 | <0.0002 | <0.0002 | <0.0002 | 0.00070 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | 0.000060 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | 0.0057 | 0.0050 | 0.0058 | 0.0027 | 0.0027 | 0.0028 | 0.0034 | 0.0027 | 0.0024 | 0.0027 | 0.0047 | 0.0068 | 0.0082 |
| Selenium | 0.0063 | 0.0038 | 0.00070 | 0.0023 | 0.0019 | 0.0021 | 0.0051 | 0.0027 | 0.0013 | 0.00070 | 0.00080 | 0.0013 | 0.0010 |
| Zinc | 0.024 | 0.025 | 0.014 | 0.0012 | 0.0019 | 0.0020 | 0.0080 | 0.0031 | 0.0029 | 0.018 | 0.017 | 0.050 | 0.045 |
| Benzene | <0.001 | <0.001 | <0.001 | 1.90 | 1.10 | 1.60 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | <0.001 | <0.001 | <0.001 | 0.024 | 0.015 | 0.023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | 0.049 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | 0.077 | 0.078 | 0.29 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | 0.080 | 0.075 | 0.23 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | <0.002 | <0.002 | <0.002 | 0.157 | 0.153 | 0.52 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Methyl tert-butyl ether | <0.003 | | | <0.003 | <0.003 | <0.003 | <0.003 | | | <0.003 | | <0.003 | |
| TPH (C10 - C40) | 0.1 | 0.06 | | 14.4 | 15.2 | | <0.01 | <0.01 | <0.01 | 0.55 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | 0.10 | 0.060 | <0.01 | 16.40 | 16.60 | 10.90 | <0.01 | <0.01 | <0.01 | 0.43 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <0.01 | <0.01 | 0.070 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <0.01 | <0.01 | <0.01 | 0.050 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <0.01 | <0.01 | <0.01 | 0.020 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <0.01 | <0.01 | <0.01 | 0.020 | <<0.10 & | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | <0.001 | <0.001 | <0.001 | 1.90 | 1.10 | 1.50 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | 0.025 | 0.023 | 0.027 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | <0.001 | <0.001 | <0.001 | 0.16 | 0.24 | 0.53 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | 0.050 | 0.030 | <0.01 | 9.63 | 11.50 | 6.54 | <0.01 | <0.01 | <0.01 | 0.050 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | 0.040 | 0.020 | <0.01 | 3.59 | 2.77 | 1.55 | <0.01 | <0.01 | <0.01 | 0.050 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | <0.01 | <0.01 | <0.01 | 0.61 | 0.52 | 0.29 | <0.01 | <0.01 | <0.01 | 0.070 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | <0.01 | <0.01 | <0.01 | 0.37 | 0.41 | 0.38 | <0.01 | <0.01 | <0.01 | 0.26 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | 0.10 | 0.060 | <0.01 | 14.20 | 15.20 | 8.77 | <0.01 | <0.01 | <0.01 | 0.43 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | 0.10 | 0.060 | <0.01 | 16.30 | 16.60 | 10.90 | <0.01 | <0.01 | <0.01 | 0.43 | <0.01 | <0.01 | <0.01 |

**NUMBER OF SAMPLES: 121**

| Analytical Parameter | Units | Limit of detection | CRITERIA 1: Environmental Quality Standards for freshwater surface waters | CRITERIA 2: Combined Drinking Water Screening values | No. Analyses | CRITERIA 1: Exceedances | Exceedances | Min | Mean | Max | Max ID |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | pH Units | N/A | 6-9 | 6.5<9.5 | 121 | 12 | 12 | 6.8 | 7.6 | 11.500 | MW25-22 |
| Conductivity | $\mu S.cm^{-1}$ | 10 | | 2500 | 121 | | 36 | 640 | 2513.6 | 7200 | MW25-17 |
| Cyanide (Total) (as CN) | $mg.L^{-1}$ | 0.01 | | 0.05 | 121 | | 90 | <0.01 | <0.77 | 8.6 | MW25-10 |
| Complexed cyanide | $mg.L^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.77 | 8.5 | MW25-10 |
| Easily liberatable cyanide | $mg.L^{-1}$ | 0.01 | 0.001 | 0.05 | 121 | 14 | 1 | <0.01 | <0.01 | 0.07 | MW25-14 |
| Thiocyanate | $mg.L^{-1}$ | 0.2 | | | 121 | | | <0.2 | <0.8 | 12 | MW25-14 |
| Sulphate | $mg.L^{-1}$ | 0.045 | 400 | 250 | 121 | 62 | 84 | 29.9 | 545.662 | 2220 | MW25-17 |
| Sulphur (Elemental) | $mg.L^{-1}$ | 0.02 | | | 80 | | | <0.02 | <0.02 | 0.04 | CBH102 |
| Sulphide | $mg.L^{-1}$ | 0.005 | | | 121 | | | <0.005 | <0.176 | 5.9 | MW25-17 |
| Chloride | $mg.L^{-1}$ | 0.15 | 250 | 250 | 121 | 63 | 63 | 27 | 446.72 | 1900 | MW25-17 |
| Ammonium as NH4 | $mg.L^{-1}$ | 0.015 | | 0.5 | 121 | | 102 | <0.015 | <54.093 | 680 | MW25-27 |
| Ammoniacal N (total) as N | $mg.L^{-1}$ | 0.011667 | 1.1 | | 121 | 92 | | <0.011667 | <42.073497 | 528.904 | MW25-27 |
| Un-ionised ammonia as nitrogen (NH3 as N) | $mg.L^{-1}$ | 0.011667 | | | 121 | | | <0.011667 | <42.073497 | 528.904 | MW25-27 |
| Total Organic Carbon (TOC) | $mg.L^{-1}$ | 0.1 | | | 121 | | | 2.46 | 23.7 | 264 | MW25-27 |
| Alkalinity as CaCO3 | $mg.L^{-1}$ | 3 | | | 121 | | | 50 | 379.4 | 1200 | MW25-27 |
| Dissolved Organic Carbon (DOC) | $mg.L^{-1}$ | 0.1 | | | 121 | | | 2.44 | 21.3 | 235 | MW25-27 |
| Total Suspended Solids | $mg.L^{-1}$ | 2 | | | 121 | | | <2 | <1193.9 | 110000 | CBH129 |
| Hardness - Total | $mgCaCO.L^{-1}$ | 1 | | | 121 | | | 201 | 694.2 | 2520 | MW25-08 |
| Catechol | $mg.L^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.2783 | 14 | MW25-27 |
| Resorcinol | $mg.L^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.0179 | 0.48 | MW25-23B |
| Ethylphenol & Dimethylphenol | $mg.L^{-1}$ | | | | | | | | | | |
| Cresols (Total) | $mg.L^{-1}$ | 0.0005 | 0.1 | | 121 | 15 | | <0.0005 | <1.3943 | 50 | MW25-27 |
| Naphthols | $mg.L^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.0558 | 2.2 | MW25-23B |
| Isopropylphenol | $mg.L^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.1477 | 10 | MW25-27 |
| Phenol | $mg.L^{-1}$ | 0.0005 | 0.0077 | | 121 | 39 | | <0.0005 | <0.9463 | 56 | MW25-27 |
| Trimethylphenol | $mg.L^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <0.5489 | 16 | MW25-23B |
| Phenols (Total) | $mg.L^{-1}$ | 0.0035 | | | 121 | | | <0.0035 | <5.9229 | 190 | MW25-27 |
| Total Xylenols & Ethylphenols | $mg.L^{-1}$ | 0.0005 | | | 121 | | | <0.0005 | <2.4998 | 66 | MW25-27 |
| Naphthalene | $mg.L^{-1}$ | 0.00001 | 0.002 | | 121 | 55 | | <0.00001 | <0.46322 | 6.8 | MW25-23B |
| Acenaphthylene | $mg.L^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.02575 | 0.57 | MW25-23B |
| Acenaphthene | $mg.L^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00578 | 0.12 | MW25-16A-S |
| Fluorene | $mg.L^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.01219 | 0.39 | MW25-16A-S |
| Phenanthrene | $mg.L^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.02357 | 1.1 | MW25-16A-S |
| Anthracene | $mg.L^{-1}$ | 0.00001 | 0.0001 | | 121 | 29 | | <0.00001 | <0.00742 | 0.36 | MW25-16A-S |
| Fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.0000063 | | 121 | 52 | | <0.00001 | <0.01337 | 0.81 | MW25-16A-S |
| Pyrene | $mg.L^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.01045 | 0.62 | MW25-16A-S |
| Benzo[a]anthracene | $mg.L^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00473 | 0.29 | MW25-16A-S |
| Chrysene | $mg.L^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00328 | 0.25 | MW25-16A-S |
| Benzo[b]fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.000017 | | 121 | 17 | | <0.00001 | <0.00342 | 0.28 | MW25-16A-S |
| Benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00001 | 0.000017 | | 121 | 17 | | <0.00001 | <0.00161 | 0.13 | MW25-16A-S |
| Benzo[a]pyrene | $mg.L^{-1}$ | 0.00001 | 0.00000017 | 0.00001 | 121 | 18 | 18 | <0.00001 | <0.0034 | 0.27 | MW25-16A-S |
| Indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00148 | 0.12 | MW25-16A-S |
| Dibenz(a,h)anthracene | $mg.L^{-1}$ | 0.00001 | | | 121 | | | <0.00001 | <0.00004 | 0.0032 | MW25-23B |
| Benzo[ghi]perylene | $mg.L^{-1}$ | 0.00001 | 0.0000082 | | 121 | 21 | | <0.00001 | <0.00159 | 0.13 | MW25-16A-S |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | $mg.L^{-1}$ | 0.00002 | | | 121 | | | <0.00002 | <0.00504 | 0.41 | n/a |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00004 | | 0.0001 | 121 | | 16 | <0.00004 | <0.00801 | 0.65 | n/a |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | $mg.L^{-1}$ | 0.00002 | | | 121 | | | <0.00002 | <0.00307 | 0.25 | n/a |
| PAH 16 Total | $mg.L^{-1}$ | 0.00016 | | | 121 | | | <0.00016 | <0.58256 | 9.8 | MW25-23B |
| Calcium | $mg.L^{-1}$ | 0.012 | | | 119 | | | 55 | 222.815 | 830 | MW25-08 |
| Iron | $mg.L^{-1}$ | 0.004 | 1 | 0.2 | 121 | 20 | 65 | <0.004 | <0.529 | 4.4 | MW25-10 |
| Magnesium | $mg.L^{-1}$ | | | | | | | | | | |
| Arsenic | $mg.L^{-1}$ | 0.00015 | 0.05 | 0.01 | 121 | 6 | 26 | 0.00035 | 0.00884 | 0.088 | MW25-10 |
| Cadmium | $mg.L^{-1}$ | 0.00002 | 0.00025 | 0.005 | 121 | 9 | 0 | <0.00002 | <0.00008 | 0.00073 | CBH124 |
| Chromium (VI) | $mg.L^{-1}$ | 0.005 | 0.0034 | | 121 | 0 | | <0.005 | <0.005 | <0.005 | n/a |
| Chromium (Total) | $mg.L^{-1}$ | 0.0002 | 0.0034 | 0.05 | 121 | 4 | 0 | <0.0002 | <0.0007 | 0.0064 | MW25-27 |
| Copper | $mg.L^{-1}$ | 0.0005 | 0.001 | 2 | 121 | 106 | 0 | <0.0005 | <0.0033 | 0.017 | CBH108-DUP |
| Lead | $mg.L^{-1}$ | 0.0002 | 0.0012 | 0.01 | 121 | 2 | 0 | <0.0002 | <0.0003 | 0.0052 | CBH104 |
| Mercury (inorganic) | $mg.L^{-1}$ | 0.00005 | 0.00007 | 0.001 | 121 | 9 | 3 | <0.00005 | <0.0001 | 0.00199 | MW25-17 |
| Nickel | $mg.L^{-1}$ | 0.0005 | 0.004 | 0.02 | 121 | 69 | 2 | 0.0006 | 0.0056 | 0.023 | MW25-17 |
| Selenium | $mg.L^{-1}$ | 0.0006 | | 0.01 | 121 | | 2 | <0.0006 | <0.0026 | 0.015 | MW25-14 |
| Zinc | $mg.L^{-1}$ | 0.0005 | 0.0123 | | 121 | 15 | | 0.0006 | 0.006 | 0.0499 | CBH104 |
| Benzene | $mg.L^{-1}$ | 0.001 | 0.01 | 0.001 | 121 | 37 | 38 | <0.001 | <0.855 | 22 | MW25-23B |
| Toluene | $mg.L^{-1}$ | 0.001 | 0.074 | 0.7 | 121 | 23 | 9 | <0.001 | <0.411 | 14 | MW25-23B |
| Ethylbenzene | $mg.L^{-1}$ | 0.001 | 0.02 | 0.3 | 121 | 18 | 2 | <0.001 | <0.023 | 0.39 | MW25-10 |
| Xylene (p & m-Xylene) | $mg.L^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.149 | 4.1 | MW25-23B |
| Xylene (o-Xylene) | $mg.L^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.088 | 2 | MW25-23B |
| Xylenes (Total of m and p, o-xylenes) | $mg.L^{-1}$ | 0.002 | 0.03 | 0.5 | 121 | 34 | 13 | <0.002 | <0.237 | 6.1 | n/a |
| Methyl tert-butyl ether | $mg.L^{-1}$ | 0.003 | | | 55 | | | <0.003 | <0.003 | <0.003 | n/a |
| TPH (C10 - C40) | $mg.L^{-1}$ | 0.01 | | | 108 | | | <0.01 | <6.63 | 166 | MW25-27 |
| TPH Total C5 - C35 | $mg.L^{-1}$ | 0.01 | | | 121 | | | <0.01 | <10.31 | 203 | MW25-27 |
| Aliphatic C5 - C6 | $mg.L^{-1}$ | 0.001 | | 15 | 121 | | 0 | <0.001 | <0.001 | <0.001 | n/a |
| Aliphatic C6 - C8 | $mg.L^{-1}$ | 0.001 | | 15 | 121 | | 0 | <0.001 | <0.001 | 0.061 | MW25-33 |
| Aliphatic C8 – C10 | $mg.L^{-1}$ | 0.001 | | 0.3 | 121 | | 0 | <0.001 | <0.001 | 0.03 | MW25-33 |
| Aliphatic C10 – C12 | $mg.L^{-1}$ | 0.01 | | 0.3 | 121 | | 4 | <0.01 | <0.07 | 3.11 | MW25-27 |
| Aliphatic C12 – C16 | $mg.L^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.03 | 0.62 | MW25-27 |
| Aliphatic C16 - C21 | $mg.L^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.02 | 0.32 | CBH129 |
| Aliphatic C21 - C35 | $mg.L^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.02 | 0.7 | CBH129 |
| Total Aliphatic C10 - C35 | $mg.L^{-1}$ | 0.01 | | | 107 | | | <0.01 | <0.12 | 3.92 | MW25-27 |
| Total Aliphatic C5 - C35 | $mg.L^{-1}$ | 0.01 | | | 121 | | | <0.01 | <0.11 | 3.92 | MW25-27 |
| Aromatic C5 - C7 | $mg.L^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.846 | 22 | MW25-23B |
| Aromatic C7 - C8 | $mg.L^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.412 | 14 | MW25-23B |
| Aromatic C8 – C10 | $mg.L^{-1}$ | 0.001 | | | 121 | | | <0.001 | <0.266 | 6.6 | MW25-23B |
| Aromatic C10 – C12 | $mg.L^{-1}$ | 0.01 | | 0.09 | 121 | | 50 | <0.01 | <6.02 | 156 | MW25-27 |
| Aromatic C12 – C16 | $mg.L^{-1}$ | 0.01 | | 0.09 | 121 | | 52 | <0.01 | <1.89 | 33.7 | MW25-27 |
| Aromatic C16 – C21 | $mg.L^{-1}$ | 0.01 | | 0.09 | 121 | | 47 | <0.01 | <0.41 | 9.17 | MW25-23B |
| Aromatic C21 – C35 | $mg.L^{-1}$ | 0.01 | | 0.09 | 121 | | 51 | <0.01 | <0.38 | 8 | MW25-16A-S |
| Total Aromatic C10 - C35 | $mg.L^{-1}$ | 0.01 | | | 107 | | | <0.01 | <6.94 | 192 | MW25-27 |
| Total Aromatic C5 - C35 | $mg.L^{-1}$ | 0.01 | | | 121 | | | <0.01 | <10.19 | 199 | MW25-27 |

| Sample Location | CBH104 | CBH108 | CBH108 | CBH108 | CBH108-DUP | CBH108-DUP | CBH112 | CBH112 | CBH112 | CBH130 | CBH130 | CBH130 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | - | - | - | - | - | - | - | - | - | - | - | - |
| Monitoring Round No. | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 |
| Date Sampled | 28/04/2025 | 17/03/2025 | 08/04/2025 | 28/04/2025 | 17/03/2025 | 08/04/2025 | 17/03/2025 | 08/04/2025 | 28/04/2025 | 19/03/2025 | 10/04/2025 | 30/04/2025 |
| Stratum | | | | Made Ground / Wolston Sand and Gravel | | | Wolston Sand & Gravel/Wolston Clay Membe | | | Wolston Sand & Gravel/Wolston Clay Membe | | |
| pH | 7.00 | 7.10 | 7.00 | 7.10 | 7.10 | 7.10 | 7.10 | 6.90 | 6.80 | 7.00 | 7.10 | 7.00 |
| Conductivity | **3800.00** | **5600.00** | **5300.00** | **5000.00** | **5600.00** | **5400.00** | **3000.00** | **3000.00** | **3200.00** | 1200.00 | 1100.00 | 1100.00 |
| Cyanide (Total) (as CN) | **0.22** | **1.20** | **1.10** | **1.20** | **1.20** | **1.20** | **0.48** | **0.44** | **0.49** | <0.01 | <0.01 | <0.01 |
| Complexed cyanide | 0.22 | 1.20 | 1.10 | 1.20 | 1.20 | 1.20 | 0.48 | 0.44 | 0.49 | <0.01 | <0.01 | <0.01 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | 0.30 | 0.50 | 0.40 | 0.50 | 0.40 | 0.50 | 0.20 | <0.2 | 0.20 | <0.2 | <0.2 | 0.30 |
| Sulphate | 605.00 | 1220.00 | 1070.00 | 914.00 | 1330.00 | 1140.00 | 461.00 | 424.00 | 436.00 | 199.00 | 186.00 | 220.00 |
| Sulphur (Elemental) | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 | | <0.02 | <0.02 | | <0.02 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 950.00 | 1700.00 | 1500.00 | 1200.00 | 1700.00 | 1500.00 | 690.00 | 730.00 | 680.00 | 73.00 | 66.00 | 65.00 |
| Ammonium as NH4 | **0.68** | **18.00** | **23.00** | **7.60** | **18.00** | **23.00** | **11.00** | **18.00** | **17.00** | 0.057 | 0.057 | 0.070 |
| Ammoniacal N (total) as N | 0.53 | **14.00** | **17.89** | **5.91** | **14.00** | **17.89** | **8.56** | **14.00** | **13.22** | 0.044 | 0.044 | 0.054 |
| Un-ionised ammonia as nitrogen (NH3 as N) | 0.53 | 14.00 | 17.89 | 5.91 | 14.00 | 17.89 | 8.56 | 14.00 | 13.22 | 0.044 | 0.044 | 0.054 |
| Total Organic Carbon (TOC) | 6.44 | 10.60 | 9.87 | 11.50 | 10.50 | 9.64 | 7.72 | 6.84 | 6.93 | 4.86 | 3.99 | 3.90 |
| Alkalinity as CaCO3 | 490.00 | 530.00 | 540.00 | 480.00 | 540.00 | 510.00 | 430.00 | 440.00 | 460.00 | 400.00 | 430.00 | 400.00 |
| Dissolved Organic Carbon (DOC) | 5.70 | 10.30 | 9.82 | 10.00 | 10.30 | 9.56 | 7.60 | 6.58 | 6.86 | 4.76 | 3.83 | 3.88 |
| Total Suspended Solids | 1400.00 | 26.00 | 40.00 | 5.00 | 59.00 | 26.00 | 16.00 | 16.00 | <2 | 26.00 | 17.00 | 12.00 |
| Hardness - Total | 1180.00 | 1460.00 | 1810.00 | 1270.00 | 1450.00 | 1320.00 | 561.00 | 1000.00 | 704.00 | 601.00 | 584.00 | 562.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | | | | | | | | | | | | |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | **0.35** | <0.0005 | <0.0005 | **0.36** | <0.0005 | **0.29** | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | <0.0035 | 0.35 | <0.0035 | <0.0035 | 0.36 | <0.0035 | 0.29 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | **0.0030** | **0.0024** |
| Acenaphthylene | 0.00011 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00010 | 0.00018 |
| Acenaphthene | 0.000030 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00011 | 0.000040 |
| Fluorene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.000060 | 0.000040 |
| Phenanthrene | 0.00013 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | **0.00054** | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | 0.00055 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | 0.00028 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | 0.00028 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | **0.00039** | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | **0.00020** | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | 0.00037 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | 0.00021 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00018 | <0.00001 |
| Benzo[ghi]perylene | **0.00023** | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | 0.00059 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | **0.00101** | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | 0.00044 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| PAH 16 Total | 0.0033 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | <0.00016 | 0.0034 | 0.0026 |
| Calcium | 390.00 | 470.00 | 590.00 | 420.00 | 480.00 | 410.00 | 170.00 | 310.00 | 210.00 | 190.00 | 190.00 | 190.00 |
| Iron | **0.26** | **0.46** | **0.45** | **0.46** | **0.45** | **0.45** | **0.22** | 0.17 | 0.20 | 0.11 | 0.018 | 0.0040 |
| Magnesium | | | | | | | | | | | | |
| Arsenic | 0.0027 | 0.00072 | 0.00071 | 0.00085 | 0.00070 | 0.00068 | 0.00035 | 0.00036 | 0.00036 | 0.00078 | 0.0010 | 0.00056 |
| Cadmium | **0.00030** | 0.00021 | **0.00026** | 0.00022 | 0.00023 | 0.00025 | 0.000080 | 0.000080 | 0.000090 | 0.000040 | 0.000030 | 0.000030 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.0018 | 0.00048 | 0.00063 | 0.00047 | 0.00068 | 0.0010 | 0.00044 | 0.00052 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Copper | **0.0071** | **0.0057** | **0.0064** | **0.0094** | **0.017** | **0.0060** | **0.0055** | **0.010** | **0.0048** | **0.0021** | **0.0033** | **0.0029** |
| Lead | **0.0052** | <0.0002 | <0.0002 | <0.0002 | 0.00030 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | **0.013** | **0.0042** | **0.0048** | **0.0053** | **0.0044** | **0.0046** | 0.0036 | 0.0039 | **0.0043** | 0.0023 | 0.0021 | 0.0019 |
| Selenium | 0.0017 | 0.0016 | 0.0010 | 0.0015 | 0.0017 | 0.0013 | 0.0043 | 0.0033 | 0.0033 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | **0.027** | **0.014** | 0.010 | 0.010 | **0.013** | 0.0083 | 0.0058 | 0.0025 | 0.0042 | 0.0020 | 0.0015 | 0.0028 |
| Benzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Methyl tert-butyl ether | | <0.003 | | | <0.003 | | <0.003 | | | <0.003 | | |
| TPH (C10 - C40) | <0.01 | 0.34 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.09 | |
| TPH Total C5 - C35 | <0.01 | 0.31 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.090 | <0.01 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | <0.01 | 0.030 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.050 | <0.01 |
| Aromatic C12 – C16 | <0.01 | 0.040 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.040 | <0.01 |
| Aromatic C16 – C21 | <0.01 | 0.050 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | <0.01 | **0.20** | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | <0.01 | 0.31 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.090 | <0.01 |
| Total Aromatic C5 - C35 | <0.01 | 0.31 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.090 | <0.01 |

| Sample Location | MW25-05A | MW25-05A | MW25-05A | MW25-08 | MW25-08 | MW25-08 | MW25-19A | MW25-19A | MW25-19A |
|---|---|---|---|---|---|---|---|---|---|
| | - | - | - | - | - | - | - | - | - |
| Monitoring Round No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| Date Sampled | 18/03/2025 | 08/04/2025 | 29/04/2025 | 17/03/2025 | 07/04/2025 | 28/04/2025 | 18/03/2025 | 08/04/2025 | 29/04/2025 |
| Stratum | | Wolston Sand & Gravel | | | Made Ground | | | Wolston Sand & Gravel | |
| pH | 7.20 | 7.40 | 7.30 | 7.10 | 7.00 | 6.90 | 7.30 | 7.40 | 7.10 |
| Conductivity | 1500.00 | 1600.00 | 1700.00 | **3300.00** | **3700.00** | **4500.00** | 1800.00 | 1800.00 | 2200.00 |
| Cyanide (Total) (as CN) | 0.030 | **0.15** | **0.23** | **0.79** | **0.65** | **0.40** | <0.01 | <0.01 | 0.010 |
| Complexed cyanide | 0.030 | 0.15 | 0.23 | 0.79 | 0.65 | 0.38 | <0.01 | <0.01 | 0.010 |
| Easily liberatable cyanide | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | **0.020** | <0.01 | <0.01 | <0.01 |
| Thiocyanate | <0.2 | <0.2 | 0.30 | 1.20 | 0.50 | 1.40 | <0.2 | <0.2 | <0.2 |
| Sulphate | 169.00 | 212.00 | **298.00** | 1580.00 | 1530.00 | 1520.00 | 114.00 | 117.00 | 115.00 |
| Sulphur (Elemental) | <0.02 | | <0.02 | <0.02 | | <0.02 | <0.02 | | <0.02 |
| Sulphide | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | 280.00 | 290.00 | 240.00 | 330.00 | 440.00 | 540.00 | 470.00 | 460.00 | 560.00 |
| Ammonium as NH4 | **0.59** | 0.32 | <0.015 | **36.00** | **46.00** | **48.00** | **3.30** | **5.00** | **6.30** |
| Ammoniacal N (total) as N | 0.46 | 0.25 | <0.011667 | **28.00** | **35.78** | **37.33** | **2.57** | **3.89** | **4.90** |
| Un-ionised ammonia as nitrogen (NH3 as N) | 0.46 | 0.25 | <0.011667 | 28.00 | 35.78 | 37.33 | 2.57 | 3.89 | 4.90 |
| Total Organic Carbon (TOC) | 2.80 | 2.88 | 2.99 | 53.10 | 11.50 | 75.00 | 3.26 | 2.63 | 3.03 |
| Alkalinity as CaCO3 | 360.00 | 360.00 | 350.00 | 450.00 | 550.00 | 900.00 | 310.00 | 260.00 | 290.00 |
| Dissolved Organic Carbon (DOC) | 2.74 | 2.48 | 2.98 | 51.40 | 11.50 | 70.60 | 3.24 | 2.53 | 2.92 |
| Total Suspended Solids | 360.00 | 1300.00 | 570.00 | 340.00 | 470.00 | 400.00 | 16.00 | 40.00 | 33.00 |
| Hardness - Total | 543.00 | 560.00 | 581.00 | 1380.00 | 1630.00 | 2520.00 | 326.00 | 328.00 | 473.00 |
| Catechol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | | | | | | | | | |
| Cresols (Total) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | <0.0005 | **0.014** | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | <0.0035 | 0.014 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Total Xylenols & Ethylphenols | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | <0.00001 | <0.00001 | <0.00001 | 0.00028 | **0.0021** | 0.00048 | 0.00049 | 0.00022 | <0.00001 |
| Acenaphthylene | <0.00001 | <0.00001 | <0.00001 | 0.00019 | <0.00001 | <0.00001 | 0.000040 | <0.00001 | <0.00001 |
| Acenaphthene | <0.00001 | <0.00001 | <0.00001 | 0.00015 | 0.00014 | 0.00012 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | <0.00001 | <0.00001 | <0.00001 | 0.00019 | 0.00012 | 0.00021 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | 0.000040 | <0.00001 | <0.00001 | 0.00067 | 0.00018 | 0.00065 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | <0.00001 | <0.00001 | <0.00001 | **0.00027** | <0.00001 | **0.00028** | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | **0.00010** | **0.000050** | <0.00001 | **0.0011** | **0.00010** | **0.0012** | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | 0.00011 | 0.000050 | <0.00001 | 0.00098 | <0.00001 | 0.0010 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | 0.000050 | <0.00001 | <0.00001 | 0.00044 | <0.00001 | 0.00040 | <0.00001 | <0.00001 | 0.00012 |
| Chrysene | 0.000040 | <0.00001 | <0.00001 | 0.00042 | <0.00001 | 0.00043 | <0.00001 | <0.00001 | 0.00016 |
| Benzo[b]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | **0.00047** | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | **0.00031** | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00045 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | <0.00001 | <0.00001 | <0.00001 | 0.00026 | <0.00001 | 0.00022 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | <0.00001 | <0.00001 | <0.00001 | **0.00030** | <0.00001 | **0.00029** | <0.00001 | <0.00001 | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | 0.00078 | <0.00002 | <0.00002 | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | <0.00004 | <0.00004 | <0.00004 | <0.00058 | <0.00004 | **0.00127** | <0.00004 | <0.00004 | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | <0.00002 | <0.00002 | <0.00002 | 0.00056 | <0.00002 | 0.00051 | <0.00002 | <0.00002 | <0.00002 |
| PAH 16 Total | 0.00034 | <0.00016 | <0.00016 | 0.0053 | 0.0026 | 0.0065 | 0.00053 | 0.00022 | 0.00028 |
| Calcium | 170.00 | 170.00 | 180.00 | 460.00 | 530.00 | 830.00 | 110.00 | 110.00 | 160.00 |
| Iron | 0.14 | 0.070 | **0.22** | 1.60 | **0.43** | **0.29** | 0.0090 | 0.0040 | <0.004 |
| Magnesium | | | | | | | | | |
| Arsenic | 0.0019 | 0.0012 | 0.00094 | 0.0044 | 0.0032 | 0.0040 | 0.0054 | 0.0038 | 0.0046 |
| Cadmium | 0.000070 | 0.000090 | 0.000090 | <0.00002 | <0.00002 | <0.00002 | 0.000050 | 0.000040 | 0.000050 |
| Chromium (VI) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | 0.0018 | 0.0019 | <0.0002 | 0.00086 | 0.00094 | 0.00079 | 0.00068 | <0.0002 | <0.0002 |
| Copper | **0.0058** | **0.0040** | **0.0021** | 0.00060 | <0.0005 | **0.0019** | **0.0025** | **0.0025** | **0.0026** |
| Lead | 0.00070 | 0.00040 | <0.0002 | 0.00030 | 0.00030 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | **0.0064** | **0.0078** | **0.0095** | 0.0034 | **0.0063** | **0.0076** | **0.0059** | **0.0045** | **0.0061** |
| Selenium | 0.0010 | 0.0011 | 0.0012 | 0.0051 | 0.0052 | 0.0083 | 0.0018 | 0.0019 | 0.0017 |
| Zinc | 0.0068 | 0.0039 | 0.0027 | 0.0021 | 0.0019 | 0.0031 | 0.0032 | 0.0015 | 0.0036 |
| Benzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Methyl tert-butyl ether | <0.003 | | | <0.003 | | | <0.003 | | |
| TPH (C10 - C40) | <0.01 | <0.01 | <0.01 | 0.85 | 0.28 | 0.32 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | <0.01 | <0.01 | <0.01 | 0.80 | 0.28 | 0.32 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | 0.020 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | <0.01 | <0.01 | <0.01 | 0.030 | <0.01 | 0.020 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | <0.01 | <0.01 | <0.01 | 0.18 | <0.01 | 0.11 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | <0.01 | <0.01 | <0.01 | 0.24 | <0.01 | 0.15 | | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | <0.01 | <0.01 | <0.01 | 0.24 | <0.01 | 0.15 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | <0.01 | <0.01 | <0.01 | 0.040 | 0.070 | 0.020 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | <0.01 | <0.01 | <0.01 | 0.080 | **0.12** | 0.090 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | <0.01 | <0.01 | <0.01 | 0.050 | 0.090 | 0.060 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | <0.01 | <0.01 | <0.01 | **0.39** | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | <0.01 | <0.01 | <0.01 | 0.56 | 0.28 | 0.17 | | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | <0.01 | <0.01 | <0.01 | 0.56 | 0.28 | 0.17 | <0.01 | <0.01 | <0.01 |

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# Table D: Screened Groundwater Analytica Data - Area C

Brick Kiln Street, Hinckley

| NUMBER OF SAMPLES: 4 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sample Location | MW25-28A | MW25-28A | MW25-28A | MW25-28A-DUP |
| | | | | | | | | Monitoring Round No. | 1 | 2 | 3 | 1 |
| | | | | | | | | Date Sampled | 17/03/2025 | 07/04/2025 | 28/04/2025 | 17/03/2025 |
| | | | | | | | | Stratum | Wolston Sand and Gravel | | | |
| | | | CRITERIA 1 | CRITERIA 2 | | CRITERIA 1 | CRITERIA 2 | | | | | |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Environmental Quality Standards for freshwater surface waters** | **Combined Drinking Water Screening values** | **No. Analyses** | **Exceedances** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** | | | | |
| pH | pH Units | N/A | 6-9 | 6.5<9.5 | 4 | 0 | 0 | 7.4 | 7.5 | 7.600 | MW25-28A | 7.50 | 7.60 | 7.40 | 7.40 |
| Conductivity | µS.cm$^{-1}$ | 10 | | 2500 | 4 | | 0 | 950 | 975 | 1000 | MW25-28A | 960.00 | 990.00 | 1000.00 | 950.00 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.01 | | 0.05 | 4 | | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Complexed cyanide | mg.L$^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 | 0.001 | 0.05 | 4 | 0 | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | mg.L$^{-1}$ | 0.2 | | | 4 | | | <0.2 | <0.2 | <0.2 | n/a | <0.2 | <0.2 | <0.2 | <0.2 |
| Sulphate | mg.L$^{-1}$ | 0.045 | 400 | 250 | 4 | 0 | 0 | 118 | 125.75 | 133 | MW25-28A | 124.00 | 128.00 | 133.00 | 118.00 |
| Sulphur (Elemental) | mg.L$^{-1}$ | 0.02 | | | 3 | | | <0.02 | <0.02 | <0.02 | n/a | <0.02 | | <0.02 | <0.02 |
| Sulphide | mg.L$^{-1}$ | 0.005 | | | 4 | | | <0.005 | <0.005 | <0.005 | n/a | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | mg.L$^{-1}$ | 0.15 | 250 | 250 | 4 | 0 | 0 | 88 | 96.5 | 110 | MW25-28A | 88.00 | 110.00 | 100.00 | 88.00 |
| Ammonium as NH4 | mg.L$^{-1}$ | 0.015 | | | 4 | | | <0.015 | <0.015 | 0.015 | MW25-28A | <0.015 | 0.015 | <0.015 | <0.015 |
| Ammoniacal N (total) as N | mg.L$^{-1}$ | 0.011667 | 1.1 | | 4 | 0 | | <0.011667 | <0.011667 | 0.011667 | MW25-28A | <0.011667 | 0.012 | <0.011667 | <0.011667 |
| Un-ionised ammonia as nitrogen (NH3 as N) | mg.L$^{-1}$ | 0.011667 | | | 4 | | | <0.011667 | <0.011667 | 0.011667 | MW25-28A | <0.011667 | 0.012 | <0.011667 | <0.011667 |
| Total Organic Carbon (TOC) | mg.L$^{-1}$ | 0.1 | | | 4 | | | 1.78 | 2.1 | 2.48 | MW25-28A | 1.78 | 2.48 | 2.03 | 1.92 |
| Alkalinity as CaCO3 | mg.L$^{-1}$ | 3 | | | 4 | | | 260 | 282.5 | 300 | MW25-28A | 300.00 | 260.00 | 280.00 | 290.00 |
| Dissolved Organic Carbon (DOC) | mg.L$^{-1}$ | 0.1 | | | 4 | | | 1.71 | 2 | 2.19 | MW25-28A | 1.71 | 2.19 | 2.03 | 1.88 |
| Total Suspended Solids | mg.L$^{-1}$ | 2 | | | 4 | | | 270 | 4120 | 15000 | MW25-28A | 270.00 | 15000.00 | 460.00 | 750.00 |
| Hardness - Total | mgCaCO.L$^{-1}$ | 1 | | | 4 | | | 414 | 446.5 | 497 | MW25-28A | 434.00 | 441.00 | 497.00 | 414.00 |
| Catechol | mg.L$^{-1}$ | 0.0005 | | | 4 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | mg.L$^{-1}$ | 0.0005 | | | 4 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Ethylphenol & Dimethylphenol | mg.L$^{-1}$ | | | | | | | | | | | | | | |
| Cresols (Total) | mg.L$^{-1}$ | 0.0005 | 0.1 | | 4 | 0 | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | mg.L$^{-1}$ | 0.0005 | | | 4 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | mg.L$^{-1}$ | 0.0005 | | | 4 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | mg.L$^{-1}$ | 0.0005 | 0.0077 | | 4 | 0 | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | mg.L$^{-1}$ | 0.0005 | | | 4 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | mg.L$^{-1}$ | 0.0035 | | | 4 | | | <0.0035 | <0.0035 | <0.0035 | n/a | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Total Xylenols & Ethylphenols | mg.L$^{-1}$ | 0.0005 | | | 4 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthalene | mg.L$^{-1}$ | 0.00001 | 0.002 | | 4 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthylene | mg.L$^{-1}$ | 0.00001 | | | 4 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | mg.L$^{-1}$ | 0.00001 | | | 4 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | mg.L$^{-1}$ | 0.00001 | | | 4 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | mg.L$^{-1}$ | 0.00001 | | | 4 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | mg.L$^{-1}$ | 0.00001 | 0.0001 | | 4 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.0000063 | | 4 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | mg.L$^{-1}$ | 0.00001 | | | 4 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | mg.L$^{-1}$ | 0.00001 | | | 4 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Chrysene | mg.L$^{-1}$ | 0.00001 | | | 4 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 4 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 4 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 | 0.00000017 | 0.00001 | 4 | 0 | 0 | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00001 | | | 4 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | mg.L$^{-1}$ | 0.00001 | | | 4 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00001 | 0.0000082 | | 4 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00002 | | | 4 | | | <0.00002 | <0.00002 | <0.00002 | n/a | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00004 | | 0.0001 | 4 | | 0 | <0.00004 | <0.00004 | <0.00004 | n/a | <0.00004 | <0.00004 | <0.00004 | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00002 | | | 4 | | | <0.00002 | <0.00002 | <0.00002 | n/a | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| PAH 16 Total | mg.L$^{-1}$ | 0.00016 | | | 4 | | | <0.00016 | <0.00016 | <0.00016 | n/a | <0.00016 | <0.00016 | <0.00016 | <0.00016 |
| Calcium | mg.L$^{-1}$ | 0.012 | | | 4 | | | 130 | 140 | 160 | MW25-28A | 140.00 | 130.00 | 160.00 | 130.00 |
| Iron | mg.L$^{-1}$ | 0.004 | 1 | 0.2 | 4 | 0 | 0 | 0.008 | 0.03 | 0.087 | MW25-28A | 0.016 | 0.087 | 0.0080 | 0.0080 |
| Magnesium | mg.L$^{-1}$ | | | | | | | | | | | | | | |
| Arsenic | mg.L$^{-1}$ | 0.00015 | 0.05 | 0.01 | 4 | 0 | 0 | 0.0011 | 0.00133 | 0.0017 | MW25-28A | 0.0012 | 0.0013 | 0.0017 | 0.0011 |
| Cadmium | mg.L$^{-1}$ | 0.00002 | <0.00008 | 0.005 | 4 | 0 | 0 | 0.00004 | 0.00006 | 0.00008 | MW25-28A | 0.000060 | 0.000080 | 0.000060 | 0.000040 |
| Chromium (VI) | mg.L$^{-1}$ | 0.005 | 0.0034 | | 4 | 0 | | <0.005 | <0.005 | <0.005 | n/a | <0.005 | <0.005 | <0.005 | <0.005 |
| Chromium (Total) | mg.L$^{-1}$ | 0.0002 | 0.0034 | 0.05 | 4 | 0 | 0 | <0.0002 | <0.0003 | 0.00036 | MW25-28A-DUP | 0.00034 | 0.00022 | <0.0002 | 0.00036 |
| Copper | mg.L$^{-1}$ | 0.0005 | 0.001 | 2 | 4 | 4 | 0 | 0.0013 | 0.0024 | 0.0041 | MW25-28A | **0.0022** | **0.0013** | **0.0041** | **0.0021** |
| Lead | mg.L$^{-1}$ | 0.0002 | 0.0012 | 0.01 | 4 | 0 | 0 | <0.0002 | <0.0002 | <0.0002 | n/a | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00005 | 0.00007 | 0.001 | 4 | 0 | 0 | <0.00005 | <0.00005 | <0.00005 | n/a | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | mg.L$^{-1}$ | 0.0005 | 0.004 | 0.02 | 4 | 1 | 0 | 0.0036 | 0.004 | 0.0049 | MW25-28A | 0.0040 | **0.0049** | 0.0036 | 0.0036 |
| Selenium | mg.L$^{-1}$ | 0.0006 | | 0.01 | 4 | | 0 | 0.0006 | 0.0009 | 0.0012 | MW25-28A | 0.00090 | 0.0012 | 0.00090 | 0.00060 |
| Zinc | mg.L$^{-1}$ | 0.0005 | 0.0123 | | 4 | 0 | | 0.0016 | 0.0023 | 0.0027 | MW25-28A | 0.0022 | 0.0016 | 0.0027 | 0.0026 |
| Benzene | mg.L$^{-1}$ | 0.001 | 0.01 | 0.001 | 4 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Toluene | mg.L$^{-1}$ | 0.001 | 0.074 | 0.7 | 4 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Ethylbenzene | mg.L$^{-1}$ | 0.001 | 0.02 | 0.3 | 4 | 0 | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (p & m-Xylene) | mg.L$^{-1}$ | 0.001 | | | 4 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylene (o-Xylene) | mg.L$^{-1}$ | 0.001 | | | 4 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Xylenes (Total of m and p, o-xylenes) | mg.L$^{-1}$ | 0.002 | 0.03 | 0.5 | 4 | 0 | 0 | <0.002 | <0.002 | <0.002 | n/a | <0.002 | <0.002 | <0.002 | <0.002 |
| Methyl tert-butyl ether | mg.L$^{-1}$ | 0.003 | | | 2 | | | <0.003 | <0.003 | <0.003 | n/a | <0.003 | | | <0.003 |
| TPH (C10 - C40) | mg.L$^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 0.001 | | 15 | 4 | | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 0.001 | | 15 | 4 | | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | 0.3 | 4 | | 0 | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.3 | 4 | | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | mg.L$^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | mg.L$^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | mg.L$^{-1}$ | 0.001 | | | 4 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | mg.L$^{-1}$ | 0.001 | | | 4 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | | 4 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | 0.09 | 4 | | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | 0.09 | 4 | | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | 0.09 | 4 | | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | 0.09 | 4 | | 0 | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C10 - C35 | mg.L$^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 4 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 |

# Table G: Screened Surface Water Analytical Data

| NUMBER OF SAMPLES: 6 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Sample Location | SW25-01 | SW25-01 | SW25-01 | SW25-02 | SW25-02 | SW25-02 |
| | | | | | | | | | | | Monitoring Round No. | 1 | 2 | 3 | 1 | 2 | 3 |
| | | | | | | | | | | | Date Sampled | 20/03/2025 | 07/04/2025 | 28/04/2025 | 20/03/2025 | 07/04/2025 | 28/04/2025 |
| | | | CRITERIA 1 | CRITERIA 2 | | CRITERIA 1 | CRITERIA 2 | | | | Stratum | | | | | | |
| **Analytical Parameter** | **Units** | **Limit of detection** | **Environmental Quality Standards for freshwater surface waters** | **0** | **No. Analyses** | **Exceedances** | **Exceedances** | **Min** | **Mean** | **Max** | **Max ID** | | | | | | |
| pH | pH Units | N/A | 6-9 | | 6 | 6 | | 7.3 | 7.7 | 8.000 | SW25-02 | 7.30 | 7.60 | 7.50 | 7.90 | 8.00 | 8.00 |
| Conductivity | µS.cm$^{-1}$ | 10 | | | 6 | | | 820 | 883.3 | 950 | SW25-01 | 950.00 | 890.00 | 920.00 | 850.00 | 820.00 | 870.00 |
| Cyanide (Total) (as CN) | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Complexed cyanide | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Easily liberatable cyanide | mg.L$^{-1}$ | 0.01 | 0.001 | | 6 | 0 | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Thiocyanate | mg.L$^{-1}$ | 0.2 | | | 6 | | | <0.2 | <0.2 | 0.2 | SW25-01 | <0.2 | <0.2 | 0.20 | <0.2 | <0.2 | 0.20 |
| Sulphate | mg.L$^{-1}$ | 0.045 | 400 | | 6 | 0 | | 129 | 146.333 | 159 | SW25-01 | 157.00 | 145.00 | 159.00 | 140.00 | 129.00 | 148.00 |
| Sulphur (Elemental) | mg.L$^{-1}$ | 0.02 | | | 4 | | | <0.02 | <0.02 | <0.02 | n/a | <0.02 | | <0.02 | <0.02 | | <0.02 |
| Sulphide | mg.L$^{-1}$ | 0.005 | | | 6 | | | <0.005 | <0.005 | <0.005 | n/a | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chloride | mg.L$^{-1}$ | 0.15 | 250 | | 6 | 0 | | 43 | 45.33 | 48 | SW25-01 | 47.00 | 47.00 | 48.00 | 43.00 | 43.00 | 44.00 |
| Ammonium as NH4 | mg.L$^{-1}$ | 0.015 | | | 6 | | | 0.2 | 0.497 | 1.1 | SW25-02 | 0.80 | 0.26 | 0.23 | 1.10 | 0.39 | 0.20 |
| Ammoniacal N (total) as N | mg.L$^{-1}$ | 0.011667 | 1.1 | | 6 | 0 | | 0.15556 | 0.386307 | 0.85558 | SW25-02 | 0.62 | 0.20 | 0.18 | 0.86 | 0.30 | 0.16 |
| Un-ionised ammonia as nitrogen (NH3 as N) | mg.L$^{-1}$ | 0.011667 | | | 6 | | | 0.15556 | 0.386307 | 0.85558 | SW25-02 | 0.62 | 0.20 | 0.18 | 0.86 | 0.30 | 0.16 |
| Dissolved Organic Carbon (DOC) | mg.L$^{-1}$ | 0.1 | | | 6 | | | 2.53 | 3 | 3.5 | SW25-01 | 3.50 | 2.55 | 2.53 | 3.48 | 3.14 | 2.92 |
| Total Organic Carbon (TOC) | mg.L$^{-1}$ | 0.1 | | | 6 | | | 2.8 | 3.8 | 5.91 | SW25-01 | 5.91 | 2.80 | 2.89 | 4.60 | 3.15 | 3.20 |
| Alkalinity as CaCO3 | mgCaCO.L$^{-1}$ | 3 | | | 6 | | | 300 | 320 | 370 | SW25-01 | 320.00 | 320.00 | 370.00 | 300.00 | 300.00 | 310.00 |
| Hardness - Total | mgCaCO.L$^{-1}$ | 1 | | | 6 | | | 391 | 463.2 | 522 | SW25-01 | 522.00 | 432.00 | 499.00 | 462.00 | 391.00 | 473.00 |
| Total Suspended Solids | mg.L$^{-1}$ | 2 | | | 6 | | | 14 | 827.3 | 3300 | SW25-01 | 3300.00 | 100.00 | 14.00 | 1500.00 | 31.00 | 19.00 |
| Catechol | mg.L$^{-1}$ | 0.0005 | | | 6 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Resorcinol | mg.L$^{-1}$ | 0.0005 | | | 6 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Cresols (Total) | mg.L$^{-1}$ | 0.0005 | 0.1 | | 6 | 0 | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Isopropylphenol | mg.L$^{-1}$ | 0.0005 | | | 6 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Total Xylenols & Ethylphenols | mg.L$^{-1}$ | 0.0005 | | | 6 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Naphthols | mg.L$^{-1}$ | 0.0005 | | | 6 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenol | mg.L$^{-1}$ | 0.0005 | 0.0077 | | 6 | 0 | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trimethylphenol | mg.L$^{-1}$ | 0.0005 | | | 6 | | | <0.0005 | <0.0005 | <0.0005 | n/a | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Phenols (Total) | mg.L$^{-1}$ | 0.0035 | | | 6 | | | <0.0035 | <0.0035 | <0.0035 | n/a | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 | <0.0035 |
| Naphthalene | mg.L$^{-1}$ | 0.00001 | 0.002 | | 6 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthylene | mg.L$^{-1}$ | 0.00001 | | | 6 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Acenaphthene | mg.L$^{-1}$ | 0.00001 | | | 6 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluorene | mg.L$^{-1}$ | 0.00001 | | | 6 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Phenanthrene | mg.L$^{-1}$ | 0.00001 | | | 6 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Anthracene | mg.L$^{-1}$ | 0.00001 | 0.0001 | | 6 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.0000063 | | 6 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Pyrene | mg.L$^{-1}$ | 0.00001 | | | 6 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]anthracene | mg.L$^{-1}$ | 0.00001 | | | 6 | | | <0.00001 | <0.00003 | 0.00008 | SW25-01 | <0.00001 | <0.00001 | 0.000080 | <0.00001 | <0.00001 | 0.000060 |
| Chrysene | mg.L$^{-1}$ | 0.00001 | | | 6 | | | <0.00001 | <0.00003 | 0.00009 | SW25-01 | <0.00001 | <0.00001 | 0.000090 | <0.00001 | <0.00001 | 0.000060 |
| Benzo[b]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 6 | 1 | | <0.00001 | <0.00002 | 0.00006 | SW25-01 | <0.00001 | <0.00001 | **0.000060** | <0.00001 | <0.00001 | <0.00001 |
| Benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00001 | 0.000017 | | 6 | 1 | | <0.00001 | <0.00002 | 0.00007 | SW25-01 | <0.00001 | <0.00001 | **0.000070** | <0.00001 | <0.00001 | <0.00001 |
| Benzo[a]pyrene | mg.L$^{-1}$ | 0.00001 | 0.00000017 | | 6 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00001 | | | 6 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Dibenz(a,h)anthracene | mg.L$^{-1}$ | 0.00001 | | | 6 | | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Benzo[ghi]perylene | mg.L$^{-1}$ | 0.00001 | 0.0000082 | | 6 | 0 | | <0.00001 | <0.00001 | <0.00001 | n/a | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | mg.L$^{-1}$ | 0.00002 | | | 6 | | | <0.00002 | <0.00004 | 0.00013 | n/a | <0.00002 | <0.00002 | 0.00013 | <0.00002 | <0.00002 | <0.00002 |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00004 | | | 6 | | | <0.00004 | <0.00005 | <0.0001 | SW25-01 | <0.00004 | <0.00004 | <0.0001 | <0.00004 | <0.00004 | <0.00004 |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | mg.L$^{-1}$ | 0.00002 | | | 6 | | | <0.00002 | <0.00002 | <0.00002 | n/a | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| PAH 16 Total | mg.L$^{-1}$ | 0.00016 | | | 6 | | | <0.00016 | <0.00018 | 0.0003 | SW25-01 | <0.00016 | <0.00016 | 0.00030 | <0.00016 | <0.00016 | <0.00016 |
| Arsenic | mg.L$^{-1}$ | 0.00015 | 0.05 | | 6 | 0 | | 0.00075 | 0.00099 | 0.0013 | SW25-01 | 0.0012 | 0.00085 | 0.0013 | 0.00075 | 0.00089 | 0.00092 |
| Cadmium | mg.L$^{-1}$ | 0.00002 | <0.00008 | | 6 | 0 | | <0.00002 | <0.00002 | <0.00002 | n/a | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Calcium | mg.L$^{-1}$ | 0.012 | | | 6 | | | 120 | 148.333 | 170 | SW25-01 | 170.00 | 130.00 | 160.00 | 150.00 | 120.00 | 160.00 |
| Chromium (VI) | mg.L$^{-1}$ | 0.005 | 0.0034 | | 6 | 0 | | <0.005 | <0.005 | <0.005 | n/a | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Iron | mg.L$^{-1}$ | 0.004 | 1 | | 6 | 1 | | 0.004 | 0.35 | 1.7 | SW25-01 | **1.70** | 0.33 | 0.0040 | 0.013 | 0.042 | 0.012 |
| Chromium (Total) | mg.L$^{-1}$ | 0.0002 | 0.0034 | | 6 | 0 | | <0.0002 | <0.0002 | 0.00036 | SW25-02 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.00036 | <0.0002 |
| Copper | mg.L$^{-1}$ | 0.0005 | 0.001 | | 6 | 5 | | <0.0005 | <0.0021 | 0.0033 | SW25-02 | <0.0005 | **0.0018** | **0.0026** | **0.0014** | **0.0031** | **0.0033** |
| Lead | mg.L$^{-1}$ | 0.0002 | 0.0012 | | 6 | 0 | | <0.0002 | <0.0002 | <0.0002 | n/a | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mercury (inorganic) | mg.L$^{-1}$ | 0.00005 | 0.00007 | | 6 | 0 | | <0.00005 | <0.00005 | <0.00005 | n/a | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Nickel | mg.L$^{-1}$ | 0.0005 | 0.004 | | 6 | 0 | | 0.0012 | 0.0013 | 0.0017 | SW25-01 | 0.0017 | 0.0013 | 0.0012 | 0.0014 | 0.0012 | 0.0012 |
| Selenium | mg.L$^{-1}$ | 0.0006 | | | 6 | | | <0.0006 | <0.0006 | <0.0006 | n/a | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Zinc | mg.L$^{-1}$ | 0.0005 | 0.0123 | | 6 | 0 | | 0.0012 | 0.0022 | 0.0044 | SW25-02 | 0.0012 | 0.0013 | 0.0027 | 0.0019 | 0.0017 | 0.0044 |
| Benzene | mg.L$^{-1}$ | 0.001 | 0.01 | | 2 | 0 | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | | | <0.001 | | |
| Toluene | mg.L$^{-1}$ | 0.001 | 0.074 | | 2 | 0 | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | | | <0.001 | | |
| Ethylbenzene | mg.L$^{-1}$ | 0.001 | 0.02 | | 2 | 0 | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | | | <0.001 | | |
| Xylene (p & m-Xylene) | mg.L$^{-1}$ | 0.001 | | | 2 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | | | <0.001 | | |
| Xylene (o-Xylene) | mg.L$^{-1}$ | 0.001 | | | 2 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | | | <0.001 | | |
| Xylenes (Total of m and p, o-xylenes) | mg.L$^{-1}$ | 0.002 | 0.03 | | 6 | 0 | | <0.002 | <0.001 | <0.002 | n/a | <0.002 | | | <0.002 | | |
| Methyl tert-butyl ether | mg.L$^{-1}$ | 0.003 | | | 2 | | | <0.003 | <0.003 | <0.003 | n/a | <0.003 | | | <0.003 | | |
| TPH (C10 - C40) | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C5 - C6 | mg.L$^{-1}$ | 0.001 | | | 6 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C6 - C8 | mg.L$^{-1}$ | 0.001 | | | 6 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | | 6 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aliphatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C16 - C21 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aliphatic C21 - C35 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aliphatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C5 - C7 | mg.L$^{-1}$ | 0.001 | | | 6 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C7 - C8 | mg.L$^{-1}$ | 0.001 | | | 6 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C8 – C10 | mg.L$^{-1}$ | 0.001 | | | 6 | | | <0.001 | <0.001 | <0.001 | n/a | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Aromatic C10 – C12 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C12 – C16 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C16 – C21 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Aromatic C21 – C35 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Total Aromatic C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| TPH Total C5 - C35 | mg.L$^{-1}$ | 0.01 | | | 6 | | | <0.01 | <0.01 | <0.01 | n/a | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

# Appendix A: Proposed Development Plan

# Land Off Brick Kiln St,Hinckley

ILLUSTRATIVE MASTERPLAN

NORTH

0 | 10 | 20 | 30 | 40 | 50 m

LEGEND

- Site Allocation Boundary
- Primary Movement Routes
- Secondary Movement Routes
- Shared/Private Drives
- Proposed Attenuation
- Indicative position of new tree planting
- Proposed POS
- Potential Site Access off Brick Kiln St
- Potential Highway Emergency Link
- Easement
- Existing Mast
- Proposed Development Structure
- Existing Trees
- Potential footpath connections

TRINITY VICARAGE RD

PORTER CLOSE

BRICK KILN ST

COVENTRY RD


DGL Associates Limited
Barn Meadow House
Southfield Fold Farm
Southfield
Burnley
Lancashire
BB10 3RH

Tel : 01282 601157
Mbl : 07976 782876

E-mail : ben.dgla@gmail.com


| Revision. | | Checked |
|---|---|---|
| B | Drawn B.OSullivan | |
| | Scale SEPT 2023 | Approved |
| | Drawn 1:1000@A2 | |
| | | A2 |

Client: CADENT

Project: LAND OFF BRICK KILN ST, HINCKLEY

Drawing Title: ILLUSTRATIVE MASTERPLAN

Drawing No.: DGL_230929_5830.001

# Appendix B: Summary of Previous Site Works

The following sections present a summary of the previous site investigation and reporting pertaining to the site which have been made available to Worley Consulting for review. Various desk studies have been completed at the site, however, whilst they have been reviewed, some have been omitted from the summaries below as all information has been utilised within the main report text. Where both factual and interpretive reports have been provided, these have been combined into one summary section. Additionally, various quarterly progress reports from the ongoing on-site containment system, have been consolidated together. Previous site investigation locations are presented on Figures 4A and 4B. It should be noted that sections have been redated from several of the reports and some factual information (including intrusive logs) have not been provided.

## Celtic, March 1999, Transco Electrical Enhancement Works, Factual & Interpretative Environmental Assessment Report, R440/99/917A & R440/99/905A (Southern area)

Celtic were commissioned by British Gas pls Property Division (BGPD) to investigate two areas within Area B (525 $m^2$ to the west of Block 2, and 20 $m^2$ between the water tank and substation in the southeast) where excavation works were intended as part of the forthcoming electrical enhancement at the Hinckley Operational Centre (HOC). The objectives were to investigate near-surface contamination in proposed excavation areas and to ensure any previously unidentified below-ground historical structures are not impacted during construction.

Site works took place between 3rd & 4th February 1999. 11 boreholes were drilled to a maximum depth of 4.0 m bgl using a percussive windowless sampler. 8 boreholes were completed within the 525 $m^2$ area (WS1 to WS8) with 17 samples collected. Three boreholes (WS9 to WS10) were completed within the 20 $m^2$ area with 2 samples collected. The soil samples scheduled and analysed for the full BGPD suite of analytes. Geotechnical investigation was not included in the scope of works.

The investigation encountered the following:

- 525 $m^2$ area: Made ground was encountered up to 3.0 m bgl comprising odorous brick rubble, brick and ashy sands within a silty sandy matrix. An unknown brick structure was found at 2.0 m bgl in the centre of the area. Sand and silty clays were underlying the made ground and strong hydrocarbon odours were noted to 3.0 m bgl. During intrusive works several voids and very loose soils were encountered. Historical evidence indicates the presence of part of a building in the southeast of the as well as oxide purifiers located 15 m to the northeast associated with former gas works (1872 – 1960s). A diesel fuel tank was recorded within the area, however this was not commended on within the text. The majority of samples collected within the made ground recorded a strong hydrocarbon, with a faint sulphurous odour. Elevated concentrations of PAHs (max 1660 $mg.kg^{-1}$), water-soluble sulphate (5540 $mg.kg^{-1}$) and ammonium (510 $mg.kg^{-1}$) were recorded in the samples collected. Elevated heavy metal concentrations above the ICRCL threshold for parks, playing fields and open space were also recorded for arsenic, cadmium, copper, zinc, boron, lead and mercury. Most of the contamination was observed between 2.5 – 4.0 m bgl. Heavy metal and PAH contaminant concentrations were prominent in the upper 2.5 m whereas sulphate and ammonium contaminants were more prevalent below 3.0 m.

- 20 $m^2$ area: Made ground was encountered up to 2.0 m bgl comprising limestone and brick gravels, sand and cobbles. The windowless sampler could not be advanced through the gravels and cobbles within the made ground past 0.8 m bgl within WS9 and WS10. WS11 progressed to 2 m bgl where an obstruction was recorded. Historical mapping indicates a gasholder was present in this area. It is unknown whether the underground holder bases remain beneath the area. Neither of the two samples contained contaminant concentrations exceeding the ICRCL assessment criteria, however, it was noted that only shallow soil samples were collected due to drilling difficulties and there is the potential for contamination at depth.

In conclusion, a risk to construction workers during development was highlighted which would be mitigated through the use of appropriate PPE and awareness. Consideration for the use of sulphate resistant concrete was also highlighted. Due to the highly variable nature of the made ground with loose soils and voids noted in alongside building structures, further geotechnical works were recommended.

### Celtic, March 1999, Land for Adoption as A Cycle Route, Factual & Interpretive Environmental Assessment Reports, R440/99/917B & R440/99/905B (Area A)

Celtic were commissioned by BGPD to investigate a strip of land in the northeastern corner of Area A for a proposed cycle route at the HOC. The area proposed for adoption by the local council was approximately 460$m^2$. Site works took place between 3rd and 5th February 1999 and comprised four probe holes (CP1 to CP4) to a maximum depth of 3 m using a percussive windowless sampler. A total of six samples were collected and analysed for a suite of analytes including Total TPH, cyanide, ammonium, speciated PAHs and sulphate.

Ground conditions encountered comprised an organic topsoil underlain by silty sands and clays to 3.0 m bgl. No visual or olfactory contamination was encountered during the ground investigation.

Concentrations of contaminants were not recorded in excess of the Interdepartmental Committee on the Redevelopment of Contaminated Land (ICRCL) Threshold values for parks, playing fields and open space in any of the samples analysed. The study area was assessed as low risk to human health receptors for the proposed use as a cycle route.

It was noted that groundwater analysis was not included within the scope of works, however, due to the southernly groundwater flow and the study area being upgradient to the former gas works, it was concluded that it is unlikely for the migration of contaminants to occur from the former gasworks.

### Celtic, March 1999, Stockpile of Excavated Material, Factual Environmental Assessment Site Investigation Report, R440/99/917C (Northern Area)

Celtic were commissioned by BGPD to investigate the composition of a stockpile of excavated material at the site on 4th February 1999. The stockpile was located near to the eastern boundary of Area A and comprised approximately 60 $m^2$ of material up to 2 m in height (approximately 120 $m^3$).

Three representative grab samples were collected from the stockpile and analysed for the full BGPD suite of analytes for classification.

The stockpile was recorded as comprising limestone gravel, crushed brick, concrete boulders and other general demolition waste. The source of the stockpile material is not mentioned in the report and no interpretation of the laboratory analysis was provided.

### Celtic, August 1999, 'Hinckley Operational Centre, Coventry Road, Hinckley, Leicestershire, Environmental Assessment Interpretative Desk Study Report', R440A/99/924

Celtic were commissioned by BGPD to produce an interpretative desk study environmental assessment report. The objectives of the report were to provide an assessment on any potential environmental liabilities, to provide a proposal for a ground investigation if required and to recommend remedial actions that can be taken to prevent statutory liabilities.

Gas monitoring within existing building structures was recommended to assess the potential for gas accumulation indoors in Blocks 1, 2 and 3. Further recommended works to gain clarity on the complex hydrological regime and to refine the CSM included the following:

- A drainage survey to assess whether site drainage is acting as a continuous pathway. Determining pipe depths and channels with respect to groundwater levels would be indicative as to whether site drainage is facilitating off-site groundwater migration.
- Service location to locate services across the site to assess whether these are a potential migration pathway.
- Installation of more groundwater monitoring wells for improved spatial coverage across the site and to obtain contemporary site data.
- Monitoring of proposed and historic wells to refine the groundwater flow directions and to monitor LNAPL/DNAPL at the site.
- Complete a qualitative risk assessment to identify any potential statutory liabilities and remediation recommendations.

### Celtic, March 2003, 'Hinckley Operational Centre, Coventry Road, Hinckley, Leicestershire, Factual Desk Study Report (Final)', R440A/02/2023

Celtic were commissioned by SecondSite Property Holdings Ltd to complete a factual desk-based summary of the existing data relating to the site.

The report includes site information, the environmental setting, historical development of the site, previous site investigations and remediation completed at the site.

### Celtic, April 2005, Hinckley Operational Centre, Interpretative Report and Risk Assessment (Draft), R440M/04/2495

Celtic were commissioned by SecondSite Property Holdings Ltd to provide an interpretative report on the groundwater conditions at the site. The objective was to evaluate the magnitude and potential significance of the groundwater contamination at the site.

A groundwater monitoring program was undertaken on sixteen historical boreholes which included four rounds of groundwater monitoring during April, October and December 2003 and April 2004. Wells were also monitored for carbon dioxide and oxygen, and on two occasions total volatile organic carbons (VOCs). On three occasions water samples were collected from mains water supplies near to where they entered buildings.

Groundwater depths were recorded between 1.06 to 6.99 m bgl in the southern area and between 2.2 to 3.72 m bgl in the northern area. The main contaminants of concern (COCs) identified at the site include phenol, PAH, BTEX, TPH, sulphate, ammonia, lead, copper, nickel, zinc and iron. Impacts on groundwater are most apparent in MG10 and CT06 associated with Gasholders A and B, and within BH12 associated with Gasholder 2, although a range of concentration exceeding EQS are present in boreholes along both the south western and southern site boundary, and within SHT4 associated with Gasholder 3. It was noted that there was a lack of suitable borehole locations in the central part of the site. Measurable thicknesses of LNAPL and DNAPL were recorded in wells sited along the southwestern, southern and southeastern site boundary.

Gas monitoring was completed and concentrations of methane and carbon dioxide above 12% and 16% v/v respectively was recorded. Potable water samples were collected during the three return monitoring visits. One sample collected from Block 3 exceeded the Drinking Water Standards (DWS) for TPH. No exceedances were recorded in the two following monitoring visits.

It was concluded that vapour migration into buildings is not occurring, however it is unclear whether indoor vapour monitoring was completed. Soil vapour monitoring was completed over two site visits and the maximum recorded concentrations of Volatile Organic Compound was 18 ppm. The purpose and integrity of the wells as soil vapour wells is unclear.

A qualitative risk assessment completed identified that dissolved contaminants within the groundwater at site may pose a potential risk to both Battling Brook and Sketchley Brook, however as it was qualitative, not quantitative, it was considered overconservative.

The following was noted within the report: 'A Contaminated Land Survey undertaken in April 1991 by BGPD, records information on discharge of regulated rates of crude liquor to sewer in the 1920s, but which were not monitored. Unknown as to which sewer the survey refers to. Installation of new sewer by STL Water in August 1992 at a location south of HOC near the junction of Rugby Road and Granville Road. Creosote and coal tar was encountered in the ground and groundwater within a sewer trench. It was believed to originate from the old gas plant beneath the HOC, approximately 200 m to the north west. May Gurney drilled 6 boreholes along Rugby Road at 10 m intervals. Migration of the contaminants into the boreholes was minimal, but a creosote smell was detected in 5 boreholes. Remobilization and pipe laying continued. All contaminated material was removed as special waste. Pipe seals were replaced with nitrile rubber sealing rings. Puddle clay diaphragms were placed to prevent the migration of contaminants down the drainage line. Contamination between identified associated with sewer in Rugby Road, likely to be present associated with sewer between the site and Rugby Road.'

## Celtic, June 2008, Phase 1 Design Assessment Report (Draft), R1191/08/3390

Celtic were commissioned to provide a Phase 1 Design Assessment Report to investigate the ground between historical contaminative sources and site boundaries where potential contamination may be migrating off-site (southern and western boundaries of the site).

A site investigation (named Phase 1 Improvement Works) comprising of cone penetration testing (CPT) and boreholes for groundwater treatment was undertaken.

Depth to groundwater ranged from 1.6 to 4.88 m bgl in the southern half of the site and from 2.2 to 3.72 m bgl in the north. Made Ground was encountered between 0 and 5.2 m bgl. Oadby Till underlies at thicknesses of 0.0 to 2.0 m in the south-east corner of the site. Wolston Sands and Gravels also underlies the Made Ground with approximately 6 m thickness in the central area of the site and 11.6 m thickness adjacent to the southwest boundary, by Block 1. Wolston Clay also underlies the Made Ground in the northwest of the site, reaching a maximum thickness of 14 m.

The visual contamination found within the made ground was noted as black staining, black oily material and coal fragments, whilst mild to very strong hydrocarbon odours were detected at 12 locations. Localised impacted Made Ground was found heterogeneously along the southwest boundary study area between CBH101 and CBH124.

Although some visual and olfactory contamination was recorded in the mixed shallow clays (between CBH108 and CBH116), the majority of significant hydrocarbon contamination was detected throughout the Wolston Sands and Gravels, comprising Non Aqueous Phase Liquid (NAPL) with very strong tarry, phenol and petrol odours. A 0.8 m thickness of Dense NAPL (DNAPL) was identified in CBH121 during a second round of monitoring on 10th June 2008. DNAPL thickness of 0.02 m was identified in MG10 and suspended free product in CBH128. Hydrocarbon contamination locally varied in concentrations along the southeast and southwest boundaries. No visual or olfactory contamination was found within the Wolston Clays.

The results of the soils analysis indicated a range of typical gasworks related contaminants including PAHs, easily-liberatable cyanide, sulphur, sulphates, chloride, ammonium, BTEX compounds and TPH. When comparing soil samples from the top 1 m against published and derived Soil Guideline Values for industrial and commercial use, one exceedance for easily-liberatable cyanide was noted. When compared to EQS and DWS, elevated concentrations of Phenols, PAHs, TPH, BTEX compounds, sulphates, chlorides, iron, cyanide and ammonium were detected within groundwater. Waters with elevated concentrations of PAH, BTEX, phenols and TPH were located in boreholes surrounding Block 1, installed into the Wolston Sands and Gravels unit.

32 boreholes (including 10 from previous investigation works) were monitored for gas. Based on the CIRIA document (7), the site was classified as 'very low' risk. VOC concentrations exceeded the Occupational Exposure Limit for benzene over an eight hour working day (1 ppm) in 17 of the 32 boreholes monitored.

The key findings from the site-specific human health risk assessment were:

- A potentially active pollutant linkage may exist on-site in the vicinity of Block 1, from TPH and Benzene soil and water sources at 4 m bgl, to site users via indoor air vapour inhalation.
- A potentially active pollutant linkage may exist on the adjacent land to the southwest during a redeveloped commercial scenario. Contaminants of concern from a source depth of 0.5 m and 1.0 m bgl include TPH, BTEX, PAH and trimethylbenzene present a potential risk to future site occupiers via indoor air vapour inhalation.

The key findings from the site-specific controlled waters risk assessment were:

- The vertical extent of the dissolved phase plume was assumed to be up to 11.6 m thick.
- Previous risk assessments indicate a potential risk to the Battling Brook and Sketchley Brook, however, given the geology between the site and the brook, actual risks are likely to be significantly lower. In order to confirm this, additional information regarding the spring line at the boundary between the Wolston Sands and Gravels and the Wolston Clay, perched water flow over the Wolston Clay and drainage will be required. Offsite work such as sampling at the spring line to the south of the site would be required.

Various treatment options were considered. Multi-Phase Extraction was identified as the most reasonable best practise technology, due to its potential for source removal and containment, whilst avoiding significant disturbance to site operations.

### Celtic, June 2008, Former Hinckley Gas Works, Report on Groundwater Modelling (Final) Report, 08-770-1

Data from previous phases of site investigation was collated and analytical modelling was undertaken to further refine to site conceptual site model with respect to the groundwater pathway. It was concluded that groundwater at the site would be expected to discharge to Battling Brook, approximately 100 m north of the site. Due to site constraints limiting borehole positioning, it was determined difficult to develop a detailed groundwater contour plan across the site area. In conclusion, using conservative parameters based on qualitative data, a travel time between 20-30 years from site to discharge with concentrations 20% of their on-site concentration is anticipated to reach the Battling Brook.

### Celtic, September 2008. 'Hinckley Operational Centre Land Condition Statement (Draft)', R1191/08/3447

Celtic were commissioned by National Grid Property Holdings (NGPH) to provide a land condition statement for a small area in the southeast corner of site for the proposed installation of telecommunication services. The report provided to Worley Consulting is partially redacted.

The proposed route for the telecommunications is planned to run from the east corner of Block 1, down along the southeastern boundary and through the south boundary onto Coventry Road.

## WorleyParsons, April 2013, Project Core: Human Health Environmental Assessment Works Factual & interpretative Reports, 305008-00018/51529-02

WorleyParsons were commissioned by NGPH to complete an environmental assessment of the site, including a data review and PORT assessment of the site. A site walkover was completed in December 2012 and 25 No. shallow (up to 0.3 m bgl) soil samples (SU12-1 to SU12-22, SU12-100, SU12-210 & SU12-220) were collected from areas of soft standing in Area B (primarily in the south and east of Block 2) and the perimeter of Area A. No exploratory hole logs were provided to Worley Consulting for review, however the chemical data from the samples collected was appended to the report.

The samples were screened against commercial Generic Screening Criteria (GSAC) and no exceedances were recorded.

It should be noted however that the samples were collected in areas outside of former gas works structures, and only from a shallow depth. The sampling regime was for the purposes of assessing risk to human health. The risk to controlled waters was not considered.

## WorleyParsons, April 2013, 'Data Review Hinckley Operational Centre, Coventry Road, Hinckley', 305001-00024/51374-01 (Final-Rev 1)

WorleyParsons provided a report with pertinent details regarding the site's condition including a summary of current site conditions (including site setting and environmental setting), a summary of previous site investigations and remediation works. The report includes reports that were not provided to Worley Consulting, the report summaries are included below.

**Celtic Technologies, 1998, 'Data Review'**

An extract of the Celtic 1998 Data review was appended to the WorleyParsons Data Review, within which the following summaries of previous works at the site were presented:

- Ground Explorations Ltd, 1975, 'Geotechnical Survey': Five boreholes were drilled to a maximum depth of 22.6 m bgl for geotechnical analysis. Made Ground was found up to 8.8 m bgl with evidence of tars and oils. Glacial silty clays and sands continued to 11 m bgl with stiff grey clays underlying. Groundwater was encountered in the sand and silty layers.

- Exploration Associates (Warwick) Ltd, 1983, 'Site Investigation': Two boreholes to a maximum depth of 10 m bgl prior to the construction of an access ramp to the north western car parking area.

- Balfour Maunsell, 1992, 'Groundwater Contamination Report': Creosote and coal tar was detected in soils and within groundwater during the excavation of the sewer trench along Rugby Road, approximately 200 m south of the site. The former gasworks was considered to be the likely source based on the gasworks derived contaminants encountered within the soil and groundwater. May Gurney were commissioned to install six boreholes along the sewer at 10m intervals. A creosote odour was detected in the wells. The sewer was replaced, and the clean imported soils were placed around the sewer. Puddle clay diaphragms were placed along the sewer to prevent migration of contaminants along the sewer.

- Structure Testing Services, September 1992, 'Geophysical Survey': An investigation of sub-surface structures such as tar tanks in the vicinity of Block 1 using magnetic gradiometry and inductive conductivity No structures were clearly identified.
- May Gurney, October 1992, 'Soil and Groundwater Investigation': An intrusive investigation was completed along the southern site boundary in which ten 12 m boreholes were drilled and installed (MG1-10). Made ground was recorded up to 3.5 m bgl overlying interbedded sands and clays south of Block 1. Visual and olfactory contamination was detected in the granular soils. All the groundwater samples exceeded the Dutch Intervention Values for ammonia and TPH.
- British Gas plc. December 1992, 'Geophysical Investigation': An investigation to identify the contaminant distribution in the vicinity of previously identified tar tanks. A potential plume was identified extending southeast from tanks towards the site boundary, extending to at least 4 m bgl. Perimeter remnants of the tar tanks were identified south of Block 1.
- SIMON Hydrotechnica, February 1993, 'Hydrogeological Assessment': A study to determine groundwater flow direction and velocity in drift deposits. 9 No, boreholes (SHT1-9) were installed to a maximum depth of 16 m bgl. Groundwater movement was estimated at between 2-10 m/yr. Two flow directions were delineated at the site: one to the southwest and the other to the southeast.
- British Gas Scientific Services, March 1993, 'Boundary Survey Site Investigation': 69 boreholes (BH1-69) and 23 trial pits were progressed. The removal of asbestos and oil present at the site boundary with Smallshaw (Knitwear) Ltd., Marchant Road Factory (east of the site) was requested. A bentonite slurry cut-off wall was recommended to prevent further on-site migration; however, it is unknown whether this was installed.
- British Gas Scientific Services, August 1993, Conductivity Survey: A conductivity survey encountered significant buried conductors at the site, in particular southwest of Block 1. No clear identification of tar tanks was made.
- British Gas Scientific Services, September 1993, Capital Project 241: Removal of one in-ground tar well and two liquor wells.
- A 'permanent aerobic treatment system' is reported to have been installed by British Gas Research and technology in the vicinity of the remediated tanks in 1993/4. No further details of the installation or operation of this system are known.
- 1997: The Environment Agency completed a CCTV survey of the sewer located along the western boundary. It was observed to be in poor condition and was considered a potential contaminant migration pathway.
- February 1998: Celtic visited the site and were verbally informed of tank removals (west of Block 2 and tanks A and B southwest of Block 1). Visual and olfactory observations indicated there to be gasworks related contaminants within BH50 and MG10 during monitoring south of Block 1.

**Celtic, November 2007, 'Remediation Strategy (draft)'**

Celtic provided a draft design for the initial remediation phase of a multi-phase strategy. Two groundwater sources were identified with different potential linkages considered in the design.

1. Southwest migration of dissolved NAPL and heavy metal contamination in groundwater within the made ground and Wolston Sand & Gravel towards Sketchley Brook; and,

2. Northwest migration of dissolved NAPL and heavy metal contamination in perched water at the made ground and Wolston Clay interface towards Battling Brook.

No further information is provided.

**Celtic, December 2009, 'Treatment System Installation, Commissioning and Operation Progress Report'**

The report provided to WorleyParsons detailed the hydraulic treatment system installation and operational works completed by Celtic between July – November 2009.

**Celtic, August 2011, 'Data Review'**

Celtic provided a data review report assessing the adequacy of existing site information and to provide an up-to-date interpretation of the existing information. No further information is provided.

## WYG, June 2014, 'Review and Assessment at Coventry Road, Hinckley', Ref: A074754/Hinckley/jb/gt/rev.003 – FINAL REPORT

WYG were commissioned by NGPH to review site data and provide an assessment with remediation costs and redevelopment options for the site. The report includes a qualitative assessment on potential risks to the adjacent site to the west. Additionally, a critical review of the operational boundary treatment/ containment system in the south-west was undertaken.

The review has identified a number of inconsistencies within the design of the containment system, although overall it was determined that the dissolved phase organic contaminants and NAPL in abstracted groundwater were effectively being reduced to acceptable levels prior to re-injection into the superficial deposits. It was noted that the system is unlikely to be effective in limiting the migration of inorganic or metal contaminants. Several contaminant linkages were identified which potentially pose an unacceptable risk to future site users and controlled waters receptors. Additionally, the report highlighted various data gaps and uncertainty.

## WYG, May 2015, 'Indoor Drinking Water and Air Monitoring, Coventry Road, Hinckley (0326) – Combined Factual and Interpretive Letter Report', Ref: A074754-101-1/jb/pm/FACTINT/LR1

WYG were commissioned by NGPH to complete indoor air monitoring and drinking water testing within the administrative buildings at the site. Four monitoring visits were completed between January 2015 – January 2016. The following works were completed:

- Indoor air monitoring and sampling at six locations across Blocks 1, 2,3 and 4. Samples were collected using a bottle vac and passive sampler at each location. A duplicate sample was taken during each monitoring visit.

- Collection of potable water samples at across four locations. Samples were taken from the kitchen areas in each Block. A sample was collected at each location once parameters stabilised and a duplicate was collected each round.

No elevated concentrations of carbon dioxide, carbon monoxide, methane or hydrogen sulphide were recorded during the indoor air monitoring. Vapour data was screened against the Long-Term Workplace Exposure Limits (WEL). All concentrations were either below the limit of detection or below the WEL.

Water samples were screened against the UK DWS. All contaminants of concern were below the limit of detection and no exceedances of the threshold were recorded.

It was concluded that there were no risks to current site users via inhalation of indoor vapours and consumption of water. Annual reassessment was advised based on the limited characterisation of sources on site.

### AMEC, January 2018, Brick Kiln Street, Hinckley data Review (Final), Ref: 39959 R003i2

AMEC were commissioned by NGPH to complete a data review of the site and report pertinent gaps in the site data. Of particular note was the findings of a site walkover completed in September 2017 where it was noted that a retaining wall adjacent to the hydraulic containment system had a stand-off barrier in effect to prevent heavy plant driving in close proximity to the wall due to potential stability issues. This might hinder any in-situ remediation options.

AMEC noted that a disused mainline sewer was constructed in 1968 which transects the northern site area and trends south through Blocks 3 and 4 to the western site boundary, where it then runs parallel to the boundary past Coventry Road to Rugby Road. The Environment Agency completed a CCTV survey of the sewer in 1997 located along the western boundary which was observed to be in poor condition.

### AMEC, February 2018, 'Hinckley/Lidl Land Swap Interpretative Letter Report (Site Code 0326)', Ref: 39959-02 R005i 1

AMEC were commissioned by NGPH to produce reports reviewing any potential environmental liabilities associated with contamination on two parcels of land. The parcel of land considered in the assessment is in the eastern area of site (0.1 ha) and was used as additional car parking by Cadent/NG. It partially covers the footprint of where former Gasholder No. 4 was sited.

The assessment was completed under the premise that the land will be continued to be used as car parking assessed under future open storage use. Any change in future use would require hardstanding cover and any buildings constructed with gas protection measures against potential vapours.

The assessment was completed without site investigation data for the area, previous works completed within the wider site were used as a basis for the assessment.

Based on the hardstanding cover present across the site, risks to human health and controlled waters were determined to be low.

## Celtic, September 2018, Land Contamination Risk Assessment, R1738/18/4916-DRAFT

As part of ongoing Phase 2 Remedial Treatment Works, Celtic were commissioned to undertake an update of the previous Land Contamination Risk Assessment (LCRA) for the site undertaken in 2008 (by Celtic). The objective was to provide supporting technical evidence to assist in deciding whether to continue with hydraulic containment and NAPL (non-aqueous phase liquids) recovery.

The report addressed principal hydrocarbon substances of concern, but inorganics were not discussed. The report stated that groundwater data was limited to the southwestern and southern site boundaries and made the following general observations when comparing 2008 and 2018 data:

- BTEX and TPH Fraction Compounds were locally elevated over short areas (<20 m).
- Most PAH Compounds are present at concentrations above adopted EQS and drinking water standards with areas of high impact being restricted in size (<20 m).
- Generally, concentrations of Volatile Organic Compounds had reduced significantly between 2008 and 2018. Concentrations of heavy molecule TPH Fractions and PAH Compounds had not reduced significantly and some had increased significantly.
- Cyanide was not elevated in groundwater.
- Although some metals had been detected marginally above compliance criteria at some locations, impacted areas were limited to single monitoring points and it was not considered that locally elevated metals represent significant contaminants of concern.

The report concluded:

- The hydraulic containment and NAPL recovery system has reduced source mass and minimised the migration of hydrocarbons across the southwestern site boundary.
- Although the levels of contaminants in groundwater contamination do appear to be reducing, NAPL is still being recovered, which indicates that a significant source remains.
- Planning documents associated with the recent redevelopment of the adjacent land from a commercial/light-industrial use to a mixed low/high density residential use indicates that the adjacent land was successfully remediated and validated to ensure it was suitable for the new residential use. The implemented remedial works on the adjacent land appear to have included the removal of identified shallow hydrocarbon impacts close to the boundary with treatment area on the NGPH site and installation of vapour protection measures in selected residential buildings.
- Although the adjacent site has been successfully remediated under the planning regime, the comparison of the data sets with HH-SACs indicates that if impacted groundwater from the site were to migrate over the site boundary then there is the potential for unacceptable risks to human health via indoor vapour inhalation in buildings without robust vapour protection measures. In addition, hydrocarbons could

become evident in soils at relatively shallow depth (1.5 mbgl) on the adjacent site. It was considered that this posed an unacceptable risk to human health.

- The risk to controlled waters is currently considered to be low due to the distance to the nearest surface water feature, and that the adjacent site has been successfully remediated. However, comparison of the data sets with GW-SACs indicates that should contamination migrate off-site, it would pose an unacceptable risk to the Secondary A aquifer within the superficial geology. The risks to the deeper bedrock Secondary B aquifer are considered minimal.
- Although the comparison of the data sets with SW-SACs indicates the potential for SW-SAC exceedances, the risks to surface waters are considered minimal given the likely long flow path to surface waters (400 m to 600 m to Battling Brook).

### Wood, October 2018, Hinckley PORT Land Parcels Zoning Interpretative Letter Report (Site Code 0326)

The most recent report focusing on the whole site is the Wood 2018 Interpretative Letter Report which appraises the site for a site split to support a future sales strategy. The report screens previously collected site data against residential (with and without plant uptake) GAC. This data was gathered from the Celtic 1999 and 2008 investigations and additional monitoring between 1993 and 2008. The data was gained from raw data presented within the 2013 Worley Parsons data review. It was noted that the spatial distribution was bias towards the southern and western boundary. The findings of this report are as follows:

- Heavy metals exceed residential GACs in shallow soils adjacent to the west side of Block 2 and 1. This is in an area of former purifiers. The samples did not target specific areas of contamination, rather were used for an assessment of a parcel of land for development (Celtic, Interpretive Report, 1999).
- Hydrocarbons were noted predominantly at depth associated with NAPL in sands and gravels to the west of Block 1 and 2 and southern boundary, and within a hotspot of Made Ground to the west of Block 3 (NAPL present).
- Volatile and semi volatile contaminants were encountered to the west of Block 1.
- No soil samples were screened for asbestos across the site.
- Inorganics, including gasworks contaminants of concern (heavy metals, cyanide and ammonia) are shown to exceed water quality standards across the south and south western boundaries of the site, corresponding to a groundwater flow direction in a south westerly direction.
- BTEX were encountered within groundwater to the west of Blocks 1 and 2, along the southern boundary and within Gasholders 2 & 3.
- TPH was observed within groundwater across the western and southern boundary lines with correspond to the visual and olfactory evidence of NAPL at these locations. TPH has also been encountered on the eastern boundary with corresponds to an issue with a cross-boundary TPH spill at this location (CT07). This parcel of land where the spill occurred is no longer on-site and forms part of the Lidl car park.

- PAH exceedances were recorded within groundwater on the western and southern boundary lines and within Gasholder 3.

The report references WYG's 2016 report assessing vapour on-site through indoor air sampling and states that in the site condition at the time, the risk from vapours at the site was considered to be low. A recommendation was made that if the ground was disturbed or other such changes made, the risk to site users would be re-evaluated.

A generic quantitative risk assessment (GQRA) based on data from 1999-2008 concluded that the majority of soil contaminants were recorded at depth (>1m bgl) and were associated with groundwater contamination in the underlying sands and gravels. It concluded that although results from made ground and shallow soils did not shown significant concentrations of concern for human health, the majority of the sources at the site, particularly within the southern area have not been targeted for investigation, mainly due to the position of current site buildings.

The GQRA for controlled waters concluded that exceedances within show potential free-phase corresponding with known NAPL within the sites sands and gravels aquifer. Contaminants of concern have also been recorded within perched water in Gasholders 2 and 3.

The report recommended the following:

- North of the site: further investigation for asbestos.
- Centre of the site: further investigation of made ground (associated with primary purifiers, oxide shed, benzol washer, meter house, boiler house, the lodge and within the former refuge tip), within infilled Gasholder 3 (sub-surface stucture) including delineation of the structure, and within Gasholder 4 (above ground structure) for potential fill materials when redeveloped into car parking. Detailed quantitative risk assessment was recommended for human health and controlled waters, with potential source removal of 'green mulch' within Gasholder 3 and capping with clean fill.
- South of the site: further investigation of made ground (associated with diesel tanks, purifier catch boxes, scrubbers, condensers, retort houses, purifiers and within the former refuge tip), residual tar and perched waters associated with Gasholders A and B, known hotspots of free phase product west of Blocks 1, 2 and 3, infilled Gasholders 1 and 2 (sub-surface structures), NAPL in Sand and Gravels (investigating the potential extend beyond the containment system catchment zone), potential impact of hydrocarbon contamination of groundwater from off-site (former dye works). Detailed quantitative risk assessment was recommended for human health and controlled waters, with remediation of NAPL within the impacted Secondary A Aquifer likely in the form of groundwater treatment plus containment and monitoring/validation, source removal of contaminant hotspots and gasholder contents and capping with clean fill.

It should be noted that this report does not reference data contained within the Worley Parsons 2013 Human Health investigation and assessment, however this report was focused on assessing the site based on site workers, as opposed to the proposed residential development.

## Wood, July 2020, Factual & Interpretive Site Investigation Reports and Wood, Dec 2020, Factual & Interpretive Reports

Following the Wood 2018 Interpretative Letter Report, Wood undertook further investigation and risk assessment within the northern section of the site in July and December 2020.

The July reports presenting factual data gathered as the result of an intrusive investigation in November 2019, and assessed the presence of asbestos and gasworks contaminants in shallow soils, groundwater / gas beneath the car park only. The assessment covered both current and future land uses (conservative residential with and without gardens assessment). The December reports collated and reviewed all previous works undertaken within the defined study area and presented all soil and groundwater data associated with this area as well as encompassing Block 4. A GQRA was presented using the information available.

Combined, the 2020 reports found the following:

- The 2020 investigation targeted the following potential sources of contamination:
    - Made ground in the shallow surface beneath the car park.
    - Cross-boundary made ground comprising potential former refuse tip area.
    - Contaminated groundwater including upgradient gasworks sources.
    - Potential for asbestos presence within near surface made ground material.
- Data used within the assessment comprised:
    - Soil - Wood 2020: 34 samples, Celtic 2008: 1 sample within the northern site area and 8 samples from one borehole to the south, Celtic 1999 Cycle Route Investigation: 6 samples, WSP 2013 Surface sampling: 16 samples.
    - Soil leachate and groundwater: Wood 2020 soil leachate results, Wood 2020 groundwater results: 10 samples from 4 boreholes including duplicates, CT01 (5 samples), CT02 (2 samples) and CT03 (2 samples), CBH101 (1 sample) and CBH102 (1 sample), BH36 (1 sample – 1993 kept in for information)
- No visual or olfactory evidence of contamination was encountered during the 2020 site investigation. No NAPL or observations of significant groundwater contamination was recorded during the 2020 site investigation or during the return monitoring visits.
- Lead was detected above the residential with and without plant uptake GACs in four and three samples respectively (WS7, WS8 and WS12). The exceedances of lead thresholds were generally identified in shallow made ground < 0.5m bgl. The soils at these locations are typically described as containing crushed brick. Mercury was detected in the shallow surface sampling across the northern area, all 13 samples taken in 2013 taken in soft verges around the perimeter of the site.
- Asbestos was identified in two samples in shallow soils at WS7 (0.4-0.5m bgl) and WS8 (0.1-0.2m bgl) located beneath the car park hardstanding. Gravimetric testing indicated that quantifiable amounts of fibres were identified at these locations (0.0046 and 0.0284%) and were described as loose fibres in soil, WS8 totals are noted as a high result for loose fibres in soil. Dustiness analysis shows that there was little potential for fibres to be released from the soil samples. For a future residential land use scenario, it

was considered likely that the brick fill materials of made ground directly beneath the tarmac hardstanding would be removed and replaced with a cover layer suitable as a planting medium for residential properties.

- No exceedances were recorded for benzo(a)pyrene or naphthalene. BTEX, PCBs and phenolics were all below laboratory limits of detection.
- TPH hazard indices were all <1.0 for combined TPH in on-site samples. One sample taken at 1.9 m bgl in CBH102 showed exceedances for C8-C12 aliphatic and aromatic hydrocarbons.
- One round of sampling was achieved within one vapour well. No soil vapour results exceed the GAC for a residential land use.
- Results indicate that in the majority, metals/ metalloids were not found to be leachable to concentrations exceeding water quality standards. Copper was shown to be leachable across the site (made ground and natural). Organics were found in the majority below detection limits (or at the limit of detection as a likely artefact below the limit of quantification). PAHs are recorded above the limits of detection in made ground and natural ground.
- Metals were found elevated in made ground shallow groundwater beneath the car park hardstanding as well as in older sampling of the Wolston Clay and Wolston Sands and Gravels. Marginal exceedances reflect the leaching capability identified in made ground and likely promoted by reducing environments beneath the concrete hardstanding.
- Total cyanide was present in boreholes CT01, CT02/CT03, BH36 and CBH101. CT02 and CT03 are nested boreholes in one location both targeting the Sands and Gravels. The contaminant appears to have been widespread in the Sands and Gravels between 1993 and 2008. No recent data was available.
- TPH was recorded above detection at two locations in the made ground groundwater for heavy end carbon chains only (Aliphatic EC16-EC21 and Aliphatic EC21-EC35). These fractions are not significantly soluble in water and it is, therefore, likely that particulates were trapped in the water samples for these results.
- pH and naphthalene is recorded in the Wolston Sands and Gravels at CBH101 and CBH102.
- Low level detects of PAHs are recorded in the groundwaters. Using benzo(a)pyrene as a surrogate, PAHs are recorded above the EQS. Leachability results show the underlying made ground is capable of leaching PAHs into the perched waters.
- Water in the Wolston Clay is in unproductive strata and not considered significant. This includes data from CT01. However, given the capacity to hold water and measurable concentrations of gasworks contaminants (cyanide) the clays may have some connectivity to the Sands and Gravels on the western boundary of the site.
- Groundwater in the Wolston Sand and Gravels (Secondary Aquifer) show elevated metals, cyanide, TPH and naphthalene. The boreholes CT02 and CT03 are in the up-

gradient portion of the aquifer and groundwater flow is likely to be away from the site to the south.

- The reports concluded that there is limited site investigation information available targeting the potential refuse tip identified from historical mapping. A portion of this historical feature may be situated over the Wolston Sands and Gravels Aquifer and may contribute to contamination beneath the site. The car park area investigation targeted the northern edge of the refuse area delineated by historical mapping and found no fill materials attributable to waste or infill. A vapour well on this northern edge recorded no significant volatiles. The only boreholes in the vicinity to the refuse tip that target the underlying Wolston Sands and Gravels aquifer were installed pre-1998 with outdated data and have not been subsequently located on site. The majority of this source is located beneath Block 4 office building and investigation in this area has been constrained by the current building and ancillary structures.
- The risk assessment has concluded that potentially unacceptable risks do not exist in relation to human health at the site under a current site use. The study area is unlikely to be considered contaminated land under Part 2A of the Environmental Protection Act 1990 with respect to human health in its current use.
- Controlled waters receptors have previously been considered a low risk in the northern car park area due to the underlying unproductive strata, limited extent of potential sources of contamination and distance to the Battling Brook.
- The reports recommended further investigation to target the potential former refuse area in the vicinity of Block 4 with regard to human health and controlled waters receptors. Ground investigation following the demolition of Block 4 was recommended to include soil sampling, vapour wells and groundwater wells installed in Wolston Clays and Wolston Sands and Gravels.
- For a future use residential scenario, removal of the shallow brick fill and soft verge materials and addition of a cover layer suitable as a planting medium was recommended to be included in the development design for residential gardens.

### Mewies Engineering Consultants Ltd, October 2020, 'Proposed Residential Development Land at Brick Kiln Street, Hinckley, Phase 1 Geo-environmental Desk Study', Ref 25845-04-DC-01 (Northern Area)

MEC were commissioned by Fisher German LLP to produce a Phase 1 Geo-environmental Desk-based assessment with pertinent information with respect to environmental risks and statutory liabilities associated with the site. The report covers the northern area of the site which was used for car parking.

The report includes site information, the environmental setting, historical development of the site, previous site investigations and remediation completed at the site.

The desk-based report concluded the following:

- A moderate environmental risk was assigned based on the potential for migration of contamination from the former gas works to the south.

- Remediation will be required if contamination is identified across the site.
- Gas and Vapour protection measures will likely be necessary and dependant on the extent of on-site migration of contamination from the former gasworks.
- Traditional strip or trench fill foundations are likely suitable based on the proposed development, however, is dependent on the compressibility of the Wolton Clay. Localised deepening or alternative foundations may be required in areas of highly compressible soils.
- Due to the presence of made ground and buried structures, suspended ground floor slabs with gas protection measures may be required.

The following recommendations were made:

- An intrusive site investigation to assess for any potential contamination on-site; and,
- Completion of an asbestos survey as buildings on site appear to have potential asbestos containing materials present.

## Known remedial works

Known remedial works are summarised within the Worley Parsons Data Review (2013).

Demolition of the on-site gaswork plant was completed in the 1960s. Anecdotal evidence presented within Celtic (1993) indicates that waste material and tar was removed from gasholders A. B, 1 and 2 prior to construction of Block 1.

A Groundwater Contamination Report by Balfour Maunsell in 1992 recorded that creosote and coal tar had been detected in soils and groundwater during excavation of a sewer trench in Rugby Road approximately 200 m south of the site. The Hinckley site was considered to be the likely source of this contamination. The sewer was replaced, and contamination removed as Special Waste (Celtic, 1998).

Remediation works occurred in 1993 to the south-west of Block 2 by Walter Lawrence Ltd during Capital Project 241. This included removal of the tar well to the south of Block 1 (presumed to be gasholder B), a rectangular tar tank to the south of Block 2 and tar-impacted soils believed to be surrounding gasholder A (Celtic, 1999). A total of 1,068 m3 of contaminated soils were removed and replaced with 'clean' sand and topsoil. The 8 m deep excavation at southern boundary required construction of a supporting caisson. This is believed to have been installed around BH15 and is reported as a 'permanent aerobic treatment system'. No further details of the installation or operation of this system are known and Celtic were not aware of any on-going operation of this system at the time of writing (personal communication, Stephen Kidley, Celtic, 5th September 2012).

A hydraulic containment unit was constructed by Celtic in 2009 to treat dissolved and free-phase contamination in groundwater at the southern boundary and to mitigate off-site migration. As part of the ongoing groundwater hydraulic containment system located in the southwest of Area B, a series of progress reports have been produced by Celtic. A selection of which have been provided to Worley Consulting for review.

The works comprised a total of 22 groundwater abstraction, re-injection and DNAPL boreholes (labelled as CBH's, RBH's and DBH's) installed in the designated treatment area between July and August 2009, along with 27 manhole chambers and trenches for the groundwater abstraction, re-injection and DNAPL recovery boreholes between July and September 2009. Pipework was also installed between the boreholes and above ground water treatment system.

During the first four months of system operation, significant build up of sediment was observe d in some of the groundwater abstraction boreholes. Up to 5 m reduction in borehole depth wa s noted in boreholes CBH120, CBH121B and CBH121C. To maintain the hydraulic containment, boreholes (DBH3, RBH5A and RBH6A) adjacent to these abstraction wells were utilised as groundwater abstraction wells.

The most recent progress report on the containment system was for Q4 2024, which noted that approximately 1,578 kg calculated dissolved phase hydrocarbon mass, 12,184 kg DNAPL and 1,793 kg LNAPL product was recovered via the hydraulic containment system since the start of the project. A significant proportion (78.3%) of the total mass recovered was attributable to DNAPL. Dissolved oxygen levels were considered to be suitably high enough to promote hydrocarbon degradation across the boundary. The baseline groundwater elevation adopted was 105.3 m AOD, with the average groundwater level across the barrier being 105.31 m AOD in October-December 2024.

The following figures have been extracted from the Q4 2024 Progress Report:

*Figure 1: Cumulative Dissolved Mass Removed Via the Groundwater Hydraulic Barrier Treatment System*

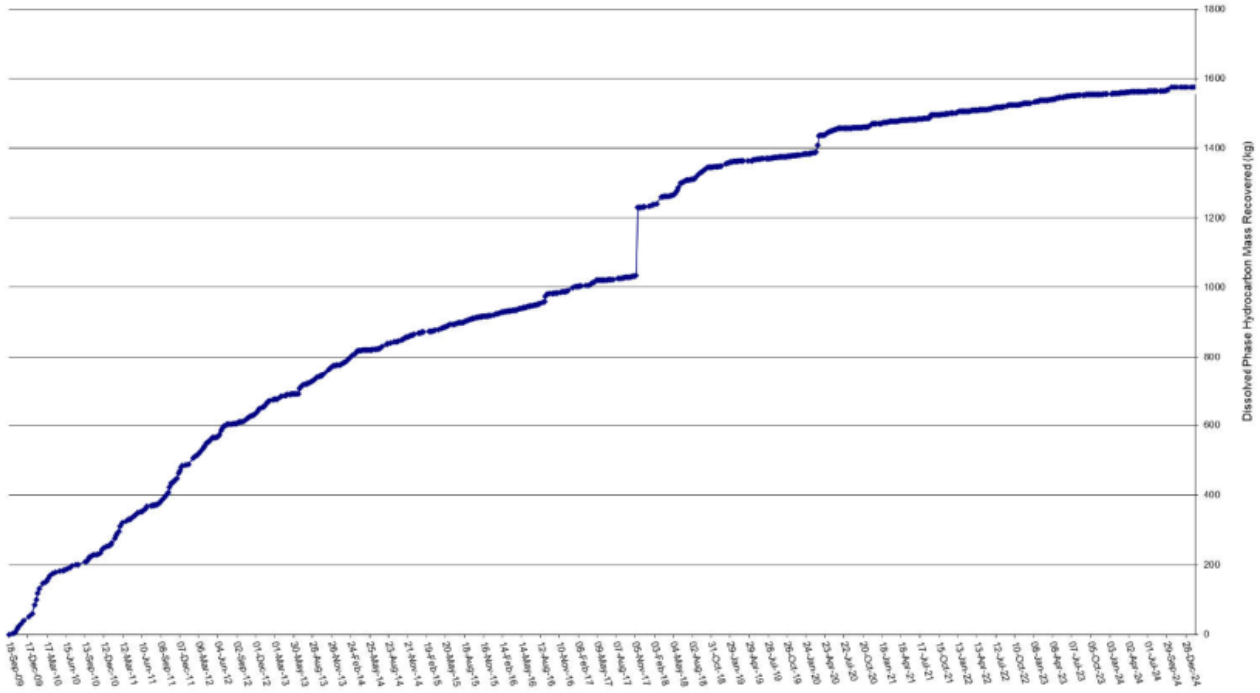


*Figure 2: DNAPL Thickness Detected in NAPL Recovery Wells (pre-daily pumping) (m)*

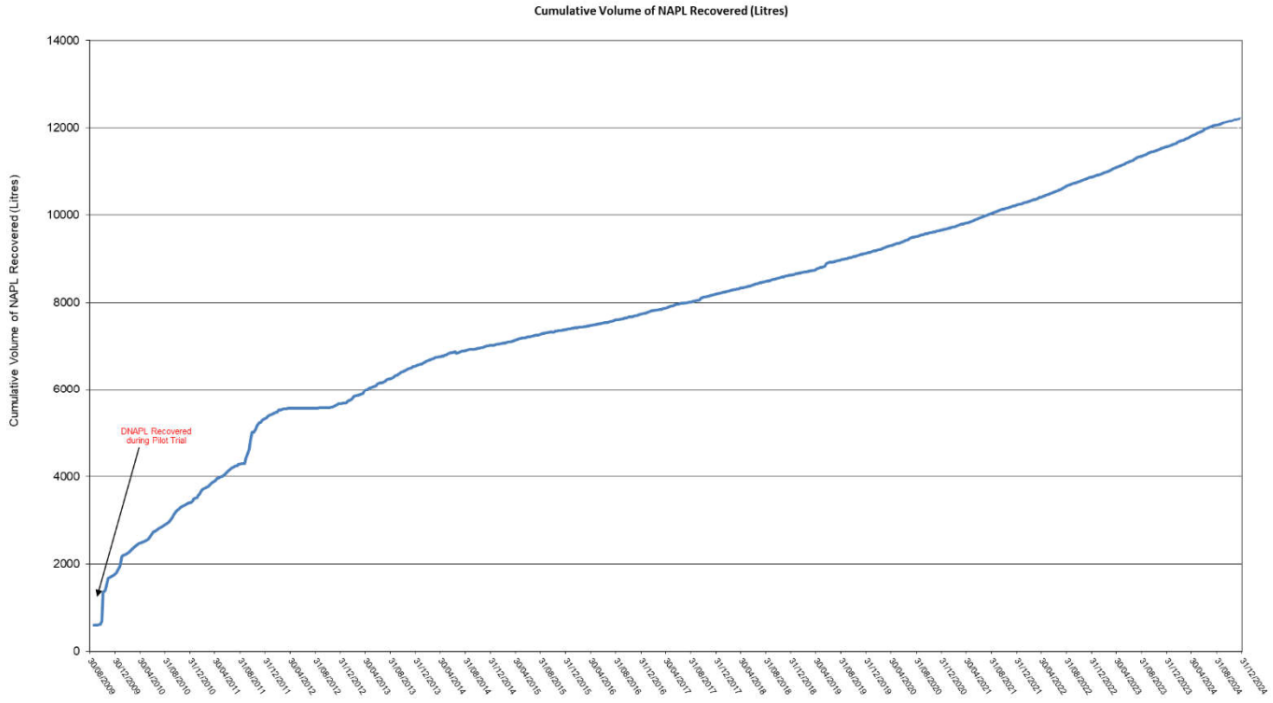
| Borehole | 2/10/2024 10.00AM | 16/10/2024 10.00AM | 30/10/2024 10.00AM | 06/11/2024 10.00AM | 5/12/2024 10.00AM |
|---|---|---|---|---|---|
| CBH121B | POP | POP | POP | POP | POP |
| CBH121C | Slight sheen | Slight sheen | Slight sheen | Slight sheen | Slight sheen |
| CBH122 | POP | POP | POP | POP | POP |
| CBH123 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| DBH1 | POP | POP | POP | POP | POP |
| DBH2 | 0.12 | 0.1 | 0.12 | 0.14 | 0.12 |
| DBH3 | POP | POP | POP | POP | POP |
| DBH4 | 0.11 | 0.13 | 0.15 | 0.17 | 0.11 |

POP – Product on probe (no measurable thickness)

| |
|---|
| DNAPL pumping well (DNAPL pump on 24/7) |
| DNAPL pumping well (DNAPL pump on 5 min/day) |

Based on the figure above, DNAPL appears to be measurable within DBH2 (north of Gasholder A), DBH4 (footprint of Gasholder A) and CBH123 (south of Gasholder B).

*Figure 3: Summary of Cumulative Product Recovery*



## *Offsite report:* Wood, March 2019, 'Brick Kiln Street, Hinckley. Lidl Land Parcel Factual Site Investigation Report', Ref:39959R012i2

Wood was commissioned by NGPH to complete an intrusive site investigation within the Lidl land parcel to the southeast of the former gasworks. The purpose of the investigation was to characterise waste materials within the top 0.5 m of made ground. The site area is 0.13 hectares in size and rectangular in shape with an operational enclosed electrical substation owned by Western Power Distribution. The site is predominantly covered by tarmacadam and was intermittently used for car parking. The site is currently owned by Lidl and is anticipated to be transferred over to Cadent.

The site formerly comprised residential buildings with gardens from 1889 which were demolished between 1920-1960. The electrical substation is mapped from1968 while the surrounding land remained empty.

Intrusive works were completed between 28th- 29th January 2019 and comprised 5 no. hand dug puts to a maximum of 0.5 m bgl. Soil samples were collected at each exploratory location and sent to a certified laboratory for Waste Acceptance Criteria (WAC) testing.

Made ground was recorded up to 0.5 m bgl and comprised dark brown to reddish brown sand and gravel. The gravel fraction comprised ash, clinker, brick and stone. No visual or olfactory contamination was observed during intrusive works.

Asbestos fibres were identified in three of the samples collected as well as the duplicate sample. In HDP1 sampled between 0.2-0.3 m, loose fibres and sheeting debris of chrysotile, amosite and crocidolite were recorded. In HDP2, sampled between 0.3-0.5 m, chrysotile was identified as loose fibrous debris. In HDP3, sampled between 0.2-0.4 m, loose fibrous debris and loose fibres of chrysotile were identified. The sample from HDP2 recorded 0.033% of chrysotile, all other samples had quantifiable concentrations below the detection limit (<0.001%).

# Appendix C: Conceptual Site Model and Risk Ranking Tables (CIRIA 552)

# CIRIA 552 Tables – Cadent

**Table 1: Classification of consequence (CIRIA 552)**

| Classification | Definition | Examples |
|---|---|---|
| Severe | Short-term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part 2A. Short-term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem | High concentrations of cyanide on site surface of active depot.<br>Major leakage/migration of contaminants from on-site structures (e.g. tar tank) into controlled water.<br>Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied). |
| Medium | Chronic significant harm to Human Health (as outlined in Part 2A Statutory Guidance 2012). Pollution of sensitive water resources. A significant change in a particular ecosystem, or organism forming part of such ecosystem. | Site wide or source specific concentrations of a contaminant from site exceed associated generic, or site-specific assessment criteria.<br>Leaching of contaminants from a site to a Principal or Secondary aquifer.<br>Asbestos fibres in shallow soils of active depot |
| Mild | Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services Damage to sensitive buildings/structures/services or the environment. | Pollution of non-classified groundwater.<br>Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability). |
| Minor | Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). | The presence of contaminants at such concentrations that protective equipment is required during site works.<br>Discoloration of concrete. |

For human health contaminant linkages, both a *severe* and *medium* classification can result in death. The differentiation between the two categories is that *severe* relates to a short term risk while *medium* relates to a long-term (chronic) risk. Therefore, the classification of *severe* should indicate that urgent action is required.

**Table 2: Classification of probability**

| Classification | Definition |
|---|---|
| High likelihood | The identified contaminant linkage appears very likely in the short term or almost inevitable over the long term, or there is evidence at the receptor of harm or pollution. |
| Likely | There is a complete contaminant linkage and all the elements are present, which means that it is probable that an event will occur. |

| | |
|---|---|
| | Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term. |
| Low likelihood | There is a complete linkage and circumstances are possible under which an event could occur, based on the sites.<br>However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term. |
| Unlikely | There is a contaminant linkage but circumstances are such that it is improbable that an event would occur even in the very long term. |

The classification of severity and likelihood should then be compared to indicate the risk presented by each contaminant linkage. The Consultant shall only apply a classification for a contaminant linkage where it is plausible that linkage will occur.

A risk category is generated by applying the severity and likelihood for each plausible linkage to Table 3. Risk categories range from 'very high risk' to 'very low risk'.

Table 3: Comparison of consequence against probability

| | | Consequence | | | |
|---|---|---|---|---|---|
| Probability | | Severe | Medium | Mild | Minor |
| | High Likelihood | Very high risk | High risk | Moderate risk | Moderate/low risk |
| | Likely | High risk | Moderate risk | Moderate/low risk | Low risk |
| | Low Likelihood | Moderate risk | Moderate/low risk | Low risk | Very low risk |
| | Unlikely | Moderate/low risk | Low risk | Very low risk | Very low risk |

# Appendix D: Adopted Assessment Criteria, TPH Additivity Assessment and PAH Surrogate Marker

# Generic Soil Assessment Criteria (GSAC ver. 18)(September 2024)

| ALL UNITS: | | | COMM | RESV |
|---|---|---|---|---|
| SOM % | | | **1.0000** | **1.0000** |
| NAPL PRESENT | | | **NO** | **NO** |
| **Contaminant** | | | **Commercial** | **Residential (with veg uptake)** |
| **STANDARD SUITE** | **SOURCE** | **NOTES** | | |
| Benzene | C4SL | | **27.2** | **0.203** |
| Toluene | S4UL | | **56000** | **130.00** |
| Ethylbenzene | S4UL | | **5700** | **47** |
| Xylene (o-Xylene) | S4UL | | **6600.00** | **60.00** |
| Xylene (m-Xylene) | S4UL | | **6200.00** | **59.00** |
| Xylene (p-Xylene) | S4UL | | **5900.00** | **56.00** |
| Phenol | S4UL | | **760.00** | **280.00** |
| Cresols (o-cresol) | EIC | Extrapolation from value for free cyanide using RIVM approach (2001). Toxicity of complex cyanide assumed to be due to conversion to free cyanide in human gut. Relative bioavailability of ferriferrocyanide (complex) to free cyanide estimated to be 0.06 (3%:50%). HCV calculated as 12 ug.kg-1.d-1 / 0.06 | **160385.00** | **152.50** |
| Complexed cyanide | RIVM | | **27394** | **1116** |
| Easily liberatable cyanide | EA | R&D Publication TOX 5 (DEFRA and Environment Agency 2002) | **1400** | **1.44** |
| **POLYCYCLIC AROMATIC HYDROCARBONS** | | | | |
| Naphthalene | C4SL | | **1600** | **15** |
| Benzo[a]pyrene (As Coal tar Surrogate Marker) | S4UL | | **15.00** | **0.79** |
| Acenaphthene | S4UL | | **84000.00** | **210.00** |
| Acenaphthylene | S4UL | | **83000.00** | **170.00** |
| Anthracene | S4UL | | **520000.00** | **2400.00** |
| Benz[a]anthracene | S4UL | | **170.00** | **7.20** |
| Benzo[a]pyrene | C4SL | | **76.40** | **4.96** |
| Benzo[b]fluoranthene | S4UL | | **44.00** | **2.60** |
| Benzo[ghi]fluoranthene | S4UL | | **3900.00** | **320.00** |
| Benzo[k]fluoranthene | S4UL | | **1200.00** | **77.00** |
| Chrysene | S4UL | | **350.00** | **15.00** |
| Dibenz(a,h)anthracene | S4UL | | **3.50** | **0.24** |

| | | | | |
|---|---|---|---|---|
| Fluoranthene | S4UL | | **23000.00** | **280.00** |
| Fluorene | S4UL | | **63000.00** | **170.00** |
| Indeno[1,2,3-cd]pyrene | S4UL | | **500.00** | **27.00** |
| Phenanthrene | S4UL | | **22000.00** | **95.00** |
| Pyrene | S4UL | | **54000.00** | **620.00** |
| **CHLORINATED SOLVENTS** | | | | |
| 1,1,1-Trichloroethane (TCA) | S4UL | | **660.00** | **8.80** |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | S4UL | | **110.00** | **1.20** |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | S4UL | | **270.00** | **1.60** |
| 1,2-Dichloroethane | C4SL | | **12** | **0.11** |
| Carbon tetrachloride (Tetrachloromethane) | S4UL | | **2.90** | **0.026** |
| Tetrachloroethylene | C4SL | | **24** | **0.31** |
| Trichloroethylene | C4SL | | **0.73** | **0.0093** |
| Trichloromethane (Chloroform) | S4UL | | **99.00** | **0.91** |
| Vinyl chloride (Chloroethene) | C4SL | | **1.1** | **0.0064** |
| **TOTAL PETROLEUM HYDROCARBONS (TPH)** | | | | |
| Aliphatic C5 - C6 | S4UL | | **3200.00** | **42.00** |
| Aliphatic C6 - C8 | S4UL | | **7800.00** | **100.00** |
| Aliphatic C8 – C10 | S4UL | | **2000.00** | **27.00** |
| Aliphatic C10 – C12 | S4UL | | **9700.00** | **130.00** |
| Aliphatic C12 – C16 | S4UL | | **59000.00** | **1100.00** |
| Aliphatic C16 – C35 | S4UL | | **1600000.00** | **65000.00** |
| Aliphatic C35 - C44 | S4UL | | **1600000.00** | **65000.00** |
| Aromatic C5 - C7 | S4UL | | **26000.00** | **70.00** |
| Aromatic C7 - C8 | S4UL | | **56000.00** | **130.00** |
| Aromatic C8 – C10 | S4UL | | **3500.00** | **34.00** |
| Aromatic C10 – C12 | S4UL | | **16000.00** | **74.00** |
| Aromatic C12 – C16 | S4UL | | **36000.00** | **140.00** |
| Aromatic C16 – C21 | S4UL | | **28000.00** | **260.00** |
| Aromatic C21 – C35 | S4UL | | **28000.00** | **1100.00** |
| Aromatic C35 - C44 | S4UL | | **28000.00** | **1100.00** |
| Aliphatic + Aromatic C44- C70 | S4UL | | **28000.00** | **1600.00** |
| **METALS** | | | | |
| Arsenic | C4SL | | **640** | **37.00** |
| Antimony | EIC | | **7353.72** | **614.68** |
| Barium | EIC | | **22067.34** | **1336.88** |
| Beryllium | S4UL | | **12.00** | **1.70** |
| Boron | S4UL | | **240000.00** | **290.00** |
| Cadmium | C4SL | | **410.00** | **22.00** |
| Chromium (III) | S4UL | | **8600.00** | **910.00** |
| Chromium (VI) | C4SL | | **49.1** | **20.6** |
| Copper | S4UL | | **68000.00** | **2400.00** |
| Lead | C4SL | | **2316.08** | **200.89** |
| Mercury (inorganic) | C4SL | | **5100** | **200** |
| Molybdenum | CIEH | | **17657.12** | **668.84** |
| Nickel | S4UL | | **980.00** | **180.00** |
| Selenium | S4UL | | **12000.00** | **250.00** |
| Vanadium | S4UL | | **9000.00** | **410.00** |
| Zinc | S4UL | | **730000.00** | **3700.00** |

| | | | | |
|---|---|---|---|---|
| **OTHER ORGANICS (EIC/AGS/CL:AIRE GACS)** | | | | |
| 1,1,2 Trichloroethane | EIC | | **89** | **0.9** |
| 1,1-Dichloroethane | EIC | | **263** | **3.5** |
| 1,1-Dichloroethene | EIC | | **24.3** | **0.3** |
| 1,2,4-Trimethylbenzene | EIC | | **39.4** | **0.5** |
| 1,2-Dichloropropane | EIC | | **3.14** | **0.03** |
| 2,4-Dimethylphenol | EIC | | **15733.00** | **34.12** |
| 2,4-Dinitrotoluene | EIC | | **3724** | **2.8** |
| 2,6-Dinitrotoluene | EIC | | **1853** | **1.5** |
| 2-Chloronaphthalene | EIC | | **370.00** | **5.33** |
| Biphenyl | EIC | | **17530.00** | **114.00** |
| Bis (2-ethylhexyl) phthalate | EIC | | **85162.98** | **507.77** |
| Bromobenzene | EIC | | **91.45** | **1.26** |
| Bromodichloromethane | EIC | | **1.96** | **0.02** |
| Bromoform | EIC | | **713.89** | **4.55** |
| Butyl benzyl phthalate | EIC | | **940280.48** | **2615.04** |
| Chloroethane | EIC | | **903.55** | **11.79** |
| Chloromethane | EIC | | **0.96** | **0.01** |
| Cis 1,2 Dichloroethene | C4SL | | **38** | **0.46** |
| Dichloromethane | EIC | | **256.59** | **1.03** |
| Diethyl Phthalate (DEP) | EIC | | **144321.00** | **215.00** |
| Di-n-butyl phthalate | EIC | | **15445.30** | **24.03** |
| Di-n-octyl phthalate | EIC | | **89071.61** | **3510.61** |
| Hexachloroethane | EIC | | **20.90** | **0.29** |
| Iso-propylbenzene | EIC | | **1301.00** | **15.95** |
| *Methyl tert-butyl ether* | EIC | | **7483** | **76** |
| Propylbenzene | EIC | | **3860.00** | **50.11** |
| Styrene | EIC | | **3681.00** | **19.45** |
| *Trans 1,2 Dichloroethene* | C4SL | | **69** | **0.9** |
| Tributyl tin oxide | EIC | | **122.5** | **0.4** |
| **CHLOROBENZENES** | | | | |
| ChloroBenzene | S4UL | | **56.00** | **0.46** |
| 1,2-dichlorobenzene | S4UL | | **2000.00** | **23.08** |
| 1,3-dichlorobenzene | S4UL | | **30.00** | **0.40** |
| 1,4-dichlorobenzene | EIC | | **4217.00** | **45.85** |
| 1,2,3-trichlorobenzene | EIC | | **102.06** | **1.48** |
| 1,2,4-trichlorobenzene | EIC | | **215.07** | **2.58** |
| 1,3,5-trichlorobenzene | EIC | | **22.45** | **0.33** |
| 1,2,3,4-Tetrachlorobenzene | EIC | | | |
| 1,2,3,5-Tetrachlorobenzene | EIC | | | |
| 1,2,4,5-Tetrachlorobenzene | EIC | | | |
| Pentachlorobenzene | EIC | | | |
| Hexachlorobenzene | EIC | | | |
| **OTHER** | | | | |
| Carbon Disulphide | EIC | | **10.95** | **0.14** |
| **PFAS** | | | | |
| Perfluorooctanoic acid (PFOA) | C4SL | | **0.60** | **0.0075** |
| Perfluorooctane sulfonic acid (PFOS) | C4SL | | **0.60** | **0.013** |
| Perfluorohexane sulfonic acid (PFHxS) | C4SL | | **0.60** | **0.0081** |
| Perfluorononanoic acid (PFNA) | C4SL | | **0.60** | **0.0073** |

**Generic Air Quality Assessment Criteria (AQAC)**

| Contaminant | Residential End Use AQAC<br>µg.m$^{-3}$ | Commercial End Use AQAC[12]<br>µg.m$^{-3}$ |
|---|---|---|
| Benzene | 5[1] | 30.3 |
| Toluene | 5,000[2] | 30,200 |
| Ethylbenzene | 770[3] | 4,730 |
| Xylenes | 200[4] | 1,260 |
| Naphthalene | 3[5] | 17.8 |
| Tetrachloroethylene (PCE) | 200[6] | 1,180 |
| Trichloroethylene (TCE) | 5.6[7] | 113 |
| 1,2,4-Trimethylbenzene | 7[8] | 21.7 |
| 1,3,5-Trimethylbenzene | n/a [9] | n/a [9] |
| Trichloromethane (chloroform) | 140[10] | 853 |
| Styrene | 850[8] | 5,210 |
| Chloromethane (methylene chloride) | 18[10] | 55.8 |
| Chloroethane (ethylene chloride) | 10,000[8] | 62,000 |
| Isopropylbenzene | 400[8] | 2,390 |
| Propylbenzene | 770[3] | 4,770 |
| 1,2-Dichlorobenzene | 35.6[11] | 882[11] |
| TPH Ali (C5-6) | 18,400[10] | 54,300 |
| TPH Ali (C6-8) | 18,400[10] | 54,300 |
| TPH Ali (C8-10) | 1,000[10] | 3,150 |
| 1,1,1-Trichloroethane | - | 113 |
| Hydrogen Cyanide | - | 19.5 |
| Vinyl Chloride (Chloroethene) | 1[13] | 6.1 |

NOTES

1. Air Quality Standard (2010) as recommended in CLEA TOX report 'Contaminants in soil: updated collation of toxicological data and intake values for humans, Benzene' (EA, 2009a) for use in setting the $ID_{inh}$

2. Reference concentration derived by USEPA as recommended in CLEA TOX report 'Contaminants in soil: updated collation of toxicological data and intake values for humans, Toluene' (EA, 2009b) for use in setting the $TDI_{inh}$

3. Reference concentration derived by RIVM as recommended in CLEA TOX report 'Contaminants in soil: updated collation of toxicological data and intake values for humans, Ethylbenzene' (EA, 2009c) for use in setting the $TDI_{inh}$. Also recommended by USEPA PPRTV for developing a "screening value" for propylbenzene.

4. Reference concentration derived by EU INDEX initiative as recommended in CLEA TOX report 'Contaminants in soil: updated collation of toxicological data and intake values for humans, Xylenes' (EA, 2009d) for use in setting the $TDI_{inh}$

5. Reference concentration derived by USEPA as recommended in 'Contaminants in Soil: Collation of Toxicological Data and Intake Values for Humans, Naphthalene', R&D Publication Tox 20 (DEFRA and EA, 2003) for use in setting the $TDI_{inh}$

6. Tolerable concentration derived by International Programme on Chemical Safety (IPCS) in 'Concise International Chemical Assessment Document 68' (CICAD) report, 2006 as recommended in 'The LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment' (2nd edition) (LQM/CIEH, 2009)

7. Derived using the CLEA model using the $ID_{inh}$ of 5.2 µg.kg.BW.day$^{-1}$ used by LQM/CIEH (2009) and as recommended in 'Contaminants in Soil: Collation of Toxicological Data and Intake Values for Humans, Trichloroethene' R&D Publication Tox 24 (DEFRA and Environment Agency 2004)

8. Reference concentration used in 'Soil Generic Assessment Criteria for Human Health Risk Assessment', (EIC/AGS/CL:AIRE, 2010) for use in setting the $TDI_{inh}$

9. n/a Considered to be insufficient data to derive GAC (EIC/AGS/CL:AIRE, 2010)

10. Tolerable concentration or reference concentration used by LQM/CIEH (2009) for use in setting the $TDI_{inh}$

11. Derived using the CLEA model using the $TDI_{inh}$ of 43 µg.kg.BW.day$^{-1}$ used by LQM/CIEH (2009)

12. Derived for a generic commercial land using the CLEA model

13. R&D Publication TOX 18 (DEFRA and Environment Agency 2004)

Where a published CLEA (or the LQM/CIEH and EIC/AGS/CL:AIRE) health criterion value for inhalation ($HCV_{inh}$) is based on a tolerable concentration, reference concentration or air quality standard, the generic indoor air quality assessment criteria (AQAC) for a residential end-use have been selected based on the tolerable concentrations, reference concentrations or air quality standards cited in sources such as the CLEA TOX reports (or the LQM/CIEH and EIC/AGS/CL:AIRE reports where no CLEA TOX reports exist). As these concentrations assume an exposure frequency of 365 days a year and exposure duration of 24 hours a day, they are considered to be directly applicable for a residential scenario.

Where the published $HCV_{inh}$ is based on a dose (in mg.kg.BW$^{-1}$), we have used the CLEA v1.06 model to derive AQAC for a generic CLEA residential end use scenario.

The CLEA model has also been used to derive indoor AQAC suitable for a generic commercial land-use scenario, where the worker is assumed to be on site 230 days a year for 9 hours a day.

To derive AQAC using CLEA, we have used forward modelling of the indoor air pathway only to calculate the indoor air concentration that gives an average daily exposure (ADE) to HCV ratio of one.

| Chemical | footnote | CAS | GACgwvap (mg/l) | | Aqueous | |
|---|---|---|---|---|---|---|
| | | | Residential | Commercial | Solubility (ug/l) | Source |
| 1,2,4-Trimethylbenzene | | 95-63-6 | 0.024 | 2.2 | 559,000 | Table 6, SOBRA 2024 |
| Benzene | 3 | 71-43-2 | 0.5 | 20 | 1,780,000 | Table 6, SOBRA 2024 |
| Ethylbenzene | 3 | 100-41-4 | 10 | 960 (sol) | 180,000 | Table 6, SOBRA 2024 |
| Isopropylbenzene | | 98-82-8 | 0.85 | 86 (sol) | 56,000 | Table 6, SOBRA 2024 |
| Propylbenzene | | 103-65-1 | 2.7 | 240 (sol) | 54,100 | Table 6, SOBRA 2024 |
| Styrene | | 100-42-5 | 8.8 | 810 (sol) | 290,000 | Table 6, SOBRA 2024 |
| Toluene | 3 | 108-88-3 | 230 | 21000 (sol) | 590,000 | Table 6, SOBRA 2024 |
| TPH Aliphatic EC5-EC6 | 3 | - | 1.9 | 190 (sol) | 35,900 | Table 6, SOBRA 2024 |
| TPH Aliphatic >EC6-EC8 | 3 | - | 1.5 | 150 (sol) | 5,370 | Table 6, SOBRA 2024 |
| TPH Aliphatic >EC8-EC10 | 3 | - | 0.057 | 5.7 (sol) | 427 | Table 6, SOBRA 2024 |
| TPH Aliphatic >EC10-EC12 | 3 | - | 0.037 | 3.6 (sol) | 34 | Table 6, SOBRA 2024 |
| TPH Aromatic >EC5-EC7 | 2,3 | - | 210 | 20000 (sol) | 1,780,000 | Table 6, SOBRA 2024 |
| TPH Aromatic >EC7-EC8 | 3 | - | 220 | 21000 (sol) | 590,000 | Table 6, SOBRA 2024 |
| TPH Aromatic >EC8-EC10 | 3 | - | 1.9 | 190 (sol) | 64,600 | Table 6, SOBRA 2024 |
| TPH Aromatic >EC10-EC 12 | 3 | - | 6.8 | 660 (sol) | 24,500 | Table 6, SOBRA 2024 |
| TPH Aromatic >EC12-EC16 | 3 | - | 39 | 3700 (sol) | 5,750 | Table 6, SOBRA 2024 |
| meta-Xylene | 3,5 | 108-38-3 | 9.5 | 940 (sol) | 200,000 | Table 6, SOBRA 2024 |
| ortho-Xylene | 3,5 | 95-47-6 | 12 | 1100 (sol) | 173,000 | Table 6, SOBRA 2024 |
| para-Xylene | 3,5 | 106-42-3 | 9.9 | 980 (sol) | 200,000 | Table 6, SOBRA 2024 |
| Acenaphthene | | 83-32-9 | 170 (sol) | 15,000 (sol) | 4,110 | Table 7, SOBRA 2024 |
| Acenaphthylene | | 208-96-8 | 220 (sol) | 20,000 (sol) | 7,950 | Table 7, SOBRA 2024 |
| Fluorene | | 86-73-7 | 210 (sol) | 18,000 (sol) | 1,860 | Table 7, SOBRA 2024 |
| Naphthalene | | 91-20-3 | 1.4 | 190 (sol) | 19,000 | Table 7, SOBRA 2024 |
| Aldrin | | 309-00-2 | 0.047 (sol) | 3.7 (sol) | 20 | Table 8, SOBRA 2024 |
| alpha-Endosulfan | | 959-98-8 | 7.4 (sol) | 590 (sol) | 530 | Table 8, SOBRA 2024 |
| beta-Endosulfan | | 33213-65-9 | 7.5 (sol) | 600 (sol) | 280 | Table 8, SOBRA 2024 |
| 1,1,1,2-Tetrachloroethane | | 79-34-5 | 0.24 | 22 | 1,110,000 | Table 9, SoBRA 2024 |
| 1,1,1-Trichloroethane | | 71-55-6 | 3 | 290 | 1,300,000 | Table 9, SoBRA 2024 |
| 1,1,2,2-Tetrachloroethane | | 79-35-4 | 1.6 | 150 | 2,930,000 | Table 9, SoBRA 2024 |
| 1,1,2-Trichloroethane | | 79-00-5 | 0.52 | 49 | 4,491,000 | Table 9, SoBRA 2024 |
| 1,1-Dichloroethane | | 75-34-3 | 2.7 | 260 | 3,666,000 | Table 9, SoBRA 2024 |
| 1,1-Dichloroethene | | 75-35-4 | 0.16 | 16 | 3,100,000 | Table 9, SoBRA 2024 |
| 1,2,3,4-Tetrachlorobenzene | | 634-66-2 | 0.24 | 31 (sol) | 7,800 | Table 9, SoBRA 2024 |
| 1,2,3,5-Tetrachlorobenzene | | 634-90-2 | 0.007 | 0.6 | 3,500 | Table 9, SoBRA 2024 |
| 1,2,3-Trichlorobenzene | | 87-61-7 | 0.035 | 3.1 | 21,000 | Table 9, SoBRA 2024 |
| 1,2,4,5-Tetrachlorobenzene | | 95-94-3 | 0.0081 | 0.7 (sol) | 600 | Table 9, SoBRA 2024 |
| 1,2,4-Trichlorobenzene | | 120-82-1 | 0.068 | 7.2 | 41,400 | Table 9, SoBRA 2024 |
| 1,2-Dichlorobenzene | | 95-50-1 | 2 | 220 (sol) | 133,000 | Table 9, SoBRA 2024 |
| 1,2-Dichloroethane | | 107-06-2 | 0.16 | 15 | 8,680,000 | Table 9, SoBRA 2024 |
| 1,2-Dichloropropane | | 78-87-5 | 0.022 | 2.6 | 2,050,000 | Table 9, SoBRA 2024 |
| 1,3,5-Trichlorobenzene | | 108-70-3 | 0.0074 | 0.66 | 6,000 | Table 9, SoBRA 2024 |
| 1,3-Dichlorobenzene | | 541-73-1 | 0.031 | 2.8 | 103,000 | Table 9, SoBRA 2024 |
| 1,4-Dichlorobenzene | | 106-46-7 | 5 | 460 (sol) | 51,200 | Table 9, SoBRA 2024 |
| Bromobenzene | | 108-86-1 | 0.22 | 20 | 388,040 | Table 9, SoBRA 2024 |
| Bromodichloromethane | | 75-27-4 | 0.017 | 1.6 | 3,000,000 | Table 9, SoBRA 2024 |
| Bromoform (Tribromomethane) | | 75-25-2 | 3.1 | 400 | 3,000,000 | Table 9, SoBRA 2024 |
| Chlorobenzene | | 108-90-7 | 0.098 | 15 | 387,000 | Table 9, SoBRA 2024 |
| Chloroethane | | 75-00-3 | 10 | 1000 | 5,742,000 | Table 9, SoBRA 2024 |
| Chloroethene (Vinyl Chloride) | | 75-01-4 | 0.012 | 1.2 | 2,760,000 | Table 9, SoBRA 2024 |
| Chloromethane | | 74-87-3 | 0.014 | 1.4 | 5,350,000 | Table 9, SoBRA 2024 |
| cis-1,2-Dichloroethene | | 156-59-2 | 0.37 | 36 | 7,550,000 | Table 9, SoBRA 2024 |
| Dichloromethane | | 75-09-2 | 3.3 | 370 | 20,080,000 | Table 9, SoBRA 2024 |
| Hexachlorobenzene | | 118-74-1 | 0.016 (sol) | 1.4 (sol) | 10 | Table 9, SoBRA 2024 |
| Hexachlorobutadiene | | 87-68-3 | 0.0017 | 0.23 | 4,800 | Table 9, SoBRA 2024 |
| Hexachloroethane | | 67-72-1 | 0.0085 | 0.74 | 49,900 | Table 9, SoBRA 2024 |
| Pentachlorobenzene | | 608-93-5 | 0.14 | 12 (sol) | 500 | Table 9, SoBRA 2024 |
| Tetrachloroethene | | 127-18-4 | 0.061 | 6.1 | 225,000 | Table 9, SoBRA 2024 |
| Tetrachloromethane (Carbon Tetrachloride) | | 56-23-5 | 0.0053 | 0.77 | 846,000 | Table 9, SoBRA 2024 |
| trans-1,2-Dichloroethene | | 156-60-5 | 0.54 | 53 | 5,250,000 | Table 9, SoBRA 2024 |
| Trichloroethene | | 79-01-6 | 0.0032 | 0.31 | 1,370,000 | Table 9, SoBRA 2024 |
| Trichloromethane (Chloroform) | | 67-66-3 | 0.79 | 85 | 8,950,000 | Table 9, SoBRA 2024 |
| 2-Chloronaphthalene | | 91-58-7 | 0.16 | 14 (sol) | 11,700 | Table 10, SOBRA 2024 |
| Biphenyl (Lemonene) | | 92-52-4 | 15 (sol) | 1300 (sol) | 4,060 | Table 10, SOBRA 2024 |
| Carbon disulphide | | 75-15-0 | 0.056 | 5.6 | 2,100,000 | Table 10, SOBRA 2024 |
| Mercury, elemental | | 7439-97-6 | 0.0011 | 0.095 (sol) | 56 | Table 10, SOBRA 2024 |
| Methyl tertiary butyl ether (MTBE) | | 1634-04-4 | 83 | 7800 | 48,000,000 | Table 10, SOBRA 2024 |

Notes

1. GAC in italics with (sol) exceed aqueous solubility.
2. GAC rounded to two significant figures.

3. The GAC for these petroleum hydrocarbon contaminants have been calculated using a sub-surface soil to indoor air correction factor of 10 in line with the physical-chemical data sources
4. The GAC for TPH fractions do not account for genotoxic mutagenic effects. Concentrations of TPH Aromatic >EC5-EC7 should therefore also be compared with the GAC for benzene to ensure that such effects are also assessed.
5. The Health Criteria Value used for each xylene isomer was for total xylene. If site specific additivity assessments are not completed, as a conservative measure the sum of isomer concentrations should be compared to the lowest xylene GAC (as is the case for soil GAC).

# WATER QUALITY STANDARDS ENGLAND & WALES

ALL UNITS: $mg.L^{-1}$

**SOURCE**

| Contaminant | | | HAZARDOUS SUBSTANCE / NON-HAZARDOUS POLLUTANT | Environmental Quality Standards for freshwater surface waters | Combined Drinking Water Screening values |
|---|---|---|---|---|---|
| **STANDARD SUITE** | **CAS** | | | | |
| Benzene | 71-43-2 | | Hazardous | **0.01** | **0.001** |
| Toluene | 108-88-3 | | Hazardous | **0.074** | **0.7** |
| Ethylbenzene | 100-41-4 | | Hazardous | **0.02** | **0.3** |
| Xylene (o-Xylene) | 95-47-6 | | | | |
| Xylene (m-Xylene) | 108-38-3 | | | | |
| Xylene (p-Xylene) | 106-42-3 | | | | |
| Phenol | 108-95-2 | | Non-Hazardous | **0.0077** | |
| Cresols (o-cresol) | 95-48-7 | | | **0.1** | |
| Complexed cyanide | 57-12-5_COMP | | | | |
| Easily liberatable cyanide | 57-12-5_FREE | | ---- | **0.001** | **0.05** |
| **POLYCYCLIC AROMATIC HYDROCARBONS** | | | | | |
| Naphthalene | 91-20-3 | | Non-Hazardous | **0.002** | |
| Benzo[a]pyrene | 50-32-8 | | Hazardous | **0.00000017** | **0.00001** |
| Acenaphthene | 83-32-9 | | | | |
| Acenaphthylene | 208-96-8 | | | | |
| Fluorene | 86-73-7 | | | | |
| **CHLORINATED SOLVENTS** | | | | | |
| 1,1,1-Trichloroethane (TCA) | 71-55-6 | | Non-Hazardous | **0.1** | |
| 1,1,1,2-Tetrachloroethane (1,1,1,2-PCA) | 630-20-6 | | | | |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | 79-35-4 | | | | |
| 1,2-Dichloroethane | 107-06-2 | | Non-Hazardous | | **0.05** |
| Carbon tetrachloride (Tetrachloromethane) | 56-23-5 | | Hazardous | **0.012** | **0.003** |
| Tetrachloroethylene | 127-18-4 | | Non-Hazardous | **0.01** | **0.01** |
| Trichloroethylene | 79-01-6 | | Hazardous | **0.01** | **0.01** |
| Trichloromethane (Chloroform) | 67-66-3 | | | | |
| Vinyl chloride (Chloroethene) | 75-01-4 | | Hazardous | | **0.0005** |
| **TOTAL PETROLEUM HYDROCARBONS (TPH)** | | | | | |
| Aliphatic C5 - C6 | GTC05C06AL | | ---- | | **15** |
| Aliphatic C6 - C8 | GTC06C08AL | | ---- | | **15** |
| Aliphatic C8 – C10 | GTC08C10AL | | ---- | | **0.3** |
| Aliphatic C10 – C12 | GTC10C12AL | | ---- | | **0.3** |
| Aliphatic C12 – C16 | GTC12C16AL | | | | |
| Aliphatic C16 – C35 | GTC16C35AL | | | | |
| Aromatic C5 - C7 | GTC05C07AR | | | | |
| Aromatic C7 - C8 | GTC07C08AR | | | | |
| Aromatic C8 – C10 | GTC08C10AR | | | | |
| Aromatic C10 – C12 | GTC10C12AR | | ---- | | **0.09** |
| Aromatic C12 – C16 | GTC12C16AR | | ---- | | **0.09** |
| Aromatic C16 – C21 | GTC16C21AR | | ---- | | **0.09** |
| Aromatic C21 – C35 | GTC21C35AR | | ---- | | **0.09** |
| **METALS** | | | | | |
| Arsenic | 7440-38-2 | | Hazardous | **0.05** | **0.01** |
| Antimony | 7440-36-0 | | Non-Hazardous | | **0.005** |
| Barium | 7440-39-3 | | ---- | | **0.7** |
| Beryllium | 7440-41-7 | | | | |
| Boron | 7440-42-8 | | Non-Hazardous | | **1** |
| Cadmium | 7440-43-9 | | Non-Hazardous | **<0.00008** | **0** |
| Chromium (III) | 16065-83-1 | | ---- | **0.0047** | |
| Chromium (VI) | 18540-29-9 | | Hazardous | **0.0034** | |
| Copper | 7440-50-8 | | | **0.001** | **2** |
| Lead | 7439-92-1 | | Hazardous | **0.0012** | **0.01** |
| Mercury (inorganic) | 7439-97-6 | | Hazardous | **0.00007** | **0.001** |
| Molybdenum | 7439-98-7 | | | | |
| Nickel | 7440-02-0 | | Non-Hazardous | **0.004** | **0.02** |
| Selenium | 7782-49-2 | | Non-Hazardous | | **0.01** |
| Vanadium | 7440-62-2 | | | | |
| Zinc | 7440-66-6 | | Non-Hazardous | **0.0123** | |
| **OTHER ORGANICS (EIC/AGS/CL:AIRE GACS)** | | | | | |
| 1,1,2 Trichloroethane | 79-00-5 | | Non-Hazardous | **0.4** | |
| 1,1-Dichloroethane | 75-34-3 | | | | |
| 1,1-Dichloroethene | 75-35-4 | | | | |
| 1,2,4-Trimethylbenzene | 95-63-6 | | | | |
| 1,2-Dichloropropane | 78-87-5 | | Hazardous | | **0.0001** |
| 2,4-Dimethylphenol | 105-67-9 | | | | |
| 2,4-Dinitrotoluene | 121-14-2 | | | | |
| 2,6-Dinitrotoluene | 606-20-2 | | | | |
| 2-Chloronaphthalene | 91-58-7 | | | | |
| Aldrin | 309-00-2 | | Hazardous | | **0.00003** |
| alpha-Endosulfan | 959-98-8 | | | | |
| beta-Endosulfan | 33213-65-9 | | | | |
| Biphenyl | 92-52-4 | | ---- | **0.025** | |
| Bis (2-ethylhexyl) phthalate | 117-81-7 | | | | |
| Bromobenzene | 108-86-1 | | | | |
| Bromodichloromethane | 75-27-4 | | ---- | | **0.1** |
| Bromoform | 75-25-2 | | ---- | | **0.1** |
| Butyl benzyl phthalate | 85-68-7 | | | | |
| Chloroethane | 75-00-3 | | | | |
| Chloromethane | 74-87-3 | | | | |
| Cis 1,2 Dichloroethene | 156-59-2 | | | | |
| Dichloromethane | 75-09-2 | | | | |
| Diethyl Phthalate (DEP) | 84-66-2 | | | | |
| Di-n-butyl phthalate | 84-74-2 | | | | |
| Di-n-octyl phthalate | 117-84-0 | | | | |
| Hexachloroethane | 67-72-1 | | | | |
| Hexachlorobutadiene | 87-68-3 | | Hazardous | **0.0006** | **0.0006** |
| Iso-propylbenzene | 98-82-8 | | | | |
| *Methyl tert-butyl ether* | *1634-04-4* | | | | |
| Propylbenzene | 103-65-1 | | | | |
| Styrene | 100-42-5 | | Hazardous | **0.05** | **0.02** |
| *Trans 1,2 Dichloroethene* | *156-60-5* | | | | |
| Tributyl tin oxide | 1262-21-1 | | | | |
| **CHLOROBENZENES** | | | | | |

| Contaminant | | | HAZARDOUS SUBSTANCE / NON-HAZARDOUS POLLUTANT | Environmental Quality Standards for freshwater surface waters | Combined Drinking Water Screening values |
|---|---|---|---|---|---|
| ChloroBenzene | 108-90-7 | | | | |
| 1,2-dichlorobenzene | 95-50-1 | | Hazardous | | **1** |
| 1,3-dichlorobenzene | 541-73-1 | | Hazardous | | |
| 1,4-dichlorobenzene | 106-46-7 | | | | |
| 1,2,3-trichlorobenzene | 87-61-7 | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | | Hazardous | | |
| 1,3,5-trichlorobenzene | 108-70-3 | | | | |
| 1,2,3,4-Tetrachlorobenzene | 634-66-2 | | | | |
| 1,2,3,5-Tetrachlorobenzene | 634-90-2 | | | | |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3 | | | | |
| Pentachlorobenzene | 608-93-5 | | Hazardous | **0.000007** | |
| Hexachlorobenzene | 118-74-1 | | Hazardous | **0.00005** | **0.0001** |
| **OTHER** | | | | | |
| Carbon Disulphide | 75-15-0 | | | | |
| **"Other" pesticides** | | | ---- | | **0.0001** |
| 1,2 Dichloroethane (DCA) | 107-06-2 | | Non-Hazardous | **0.01** | **0.003** |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | ---- | | **0.0001** |
| 1,2-Dibromoethane | 106-93-4 | | Hazardous | | **0.0001** |
| 1,3-Dichloropropene | 542-75-6 | | Hazardous | | **0.0001** |
| 1,4 Dichlorobenzene | 106-46-7 | | Hazardous | | **0.3** |
| 1,4 Dioxane | 123-91-1 | | ---- | | **0.05** |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 93-76-5 | | Hazardous | | **0.0001** |
| 2,4,6-Trichlorophenol | 88-06-2 | | Hazardous | | **0.0001** |
| 2,4-Dichlorophenol | 120-83-2 | | Hazardous | **0.0042** | **0.0001** |
| 2,4-Dichlorophenoxyacetic acid (2,4-D) | 94-75-7 | | Hazardous | **0.0003** | **0.0001** |
| 2,4-Dichlorophenoxybutyric acid (2,4-DB) | 94-82-6 | | Hazardous | | **0.0001** |
| 2-chlorophenol | 95-57-8 | | Hazardous | **0.05** | **0.0001** |
| 3,4-dichloroaniline | 95-76-1 | | ---- | **0.0002** | **0.0001** |
| 4-(2-Methyl-4-chlorophenoxy)acetic acid (MCPA) | 94-74-6 | | ---- | | **0.0001** |
| 4-chloro-3-methyl-phenol | 59-50-7 | | Hazardous | **0.04** | |
| Aclonifen | 74070-46-5 | | ---- | **0.00012** | **0.0001** |
| Acrylamide | 79-06-1 | | Hazardous | | **0.0001** |
| Alachlor | 15972-60-8 | | Hazardous | **0.0003** | **0.0001** |
| Aldicarb | 116-06-3 | | Non-Hazardous | | **0.0001** |
| Alpha-HCH (Alpha Hexachlorocyclohexane, Alpha BCH) | 319-84-6 | | ---- | | **0.0001** |
| Aluminium | 7429-90-5 | | ---- | | **0.2** |
| Ammonium as NH4 | 14798-03-9 | | ---- | | **0.5** |
| Anthracene | 120-12-7 | | Hazardous | **0.0001** | |
| Aromatic C > 6- C8 (Toluene) | | | ---- | | **0.7** |
| Aromatic C >8 -C10 (Ethylbenzene) | | | ---- | | **0.3** |
| Aromatic C >8 - C10 (Xylenes) | | | ---- | | **0.5** |
| Aromatic C5 - C6 (Benzene) | | | ---- | | **0.001** |
| Atrazine | 1912-24-9 | | Hazardous | **0.0006** | **0.0001** |
| Azinphos ethyl | 2642-71-9 | | Hazardous | | **0.0001** |
| Azinphos methyl | 86-50-0 | | Hazardous | | **0.0001** |
| Bentazone | 25057-89-0 | | Non-Hazardous | **0.5** | **0.0001** |
| Benzo[b]fluoranthene | 205-99-2 | | Hazardous | **0.000017** | |
| Benzo[ghi]perylene | 191-24-2 | | Hazardous | **0.0000082** | |
| Benzo[k]fluoranthene | 207-08-9 | | Hazardous | **0.000017** | |
| Benzyl butyl phthalate | 85-68-7 | | ---- | **0.0075** | |
| Beta-HCH (Beta Hexachlorocyclohexane, Beta-BHC) | 319-85-7 | | ---- | | **0.0001** |
| Bifenox | 42576-02-3 | | Hazardous | **0.000012** | **0.0001** |
| Bromate | 15541-45-4 | | ---- | | **0.01** |
| Brominated diphenylether | 90193-67-2 | | Hazardous | **0.00014** | |
| C10-13 Chloro-alkanes | 85535-84-8 | | Hazardous | **0.0004** | |
| Carbendazim | 10605-21-7 | | Hazardous | **0.00015** | **0.0001** |
| Carbofuran | 1563-66-2 | | Non-Hazardous | | **0.0001** |
| Chlorate | 14866-68-3 | | ---- | | **0.7** |
| Chlordane | 57-74-9 | | Hazardous | | **0.0001** |
| Chlorfenvinphos | 470-90-6 | | Hazardous | **0.0001** | **0.0001** |
| Chlorfenvinphos II (trans) | 18708-86-6 | | ---- | | **0.0001** |
| Chlorfenvinphos-methyl | 470-90-6 | | ---- | | **0.0001** |
| Chloride | 16887-00-6 | | ---- | **250** | **250** |
| Chlorine | 7782-50-5 | | Non-Hazardous | **0.002** | **5** |
| Chlorite | 14998-27-7 | | ---- | | **0.7** |
| Chloronitrotoluene | 25567-68-4 | | Hazardous | **0.01** | |
| Chlorothalonil | 1897-45-6 | | Hazardous | **0.000035** | **0.0001** |
| Chlorotoluron | 15545-48-9 | | Hazardous | | **0.0001** |
| Chlorpyrifos (Chloropyrifosethyl) | 2921-88-2 | | Hazardous | **0.00003** | **0.0001** |
| Chromium (Total) | 7440-47-3 | | ---- | **0.0034** | **0.05** |
| Cis-Permethrin | 61949-76-6 | | ---- | | **0.0001** |
| Conductivity | EC | µS/cm @20 °C | ---- | | **2500** |
| Cresols (m/p-cresol) | 59-50-7 | | ---- | **0.1** | |
| Cresols (Total) | 1319-77-3 | | | **0.1** | |
| Cyanazine | 21725-46-2 | | Hazardous | | **0.0001** |
| Hydrogen Cyanide | | | Non-Hazardous | **0.001** | **0.05** |
| Cyanide (Total) (as CN) | 57-12-5 | | Non-Hazardous | | **0.05** |
| Cybutryne | 28159-98-0 | | ---- | **0.0000025** | **0.0001** |
| Cyclodiene pesticides: Sum of aldrin, dieldrin, endrin and isodrin | | | Hazardous (Group) | **0.00001** | |
| Cypermethrin | 52315-07-8 | | Hazardous | **0.0000001** | **0.0001** |
| DDT Total (Dichlorodiphenyltrichloroethane Total) | 50-29-3 | | Hazardous | **0.000025** | **0.001** |
| Delta-HCH (Delta Hexachlorocyclohexane,Delta-BHC) | 319-86-8 | | ---- | | **0.0001** |
| Demeton | 8000-97-3 | | Hazardous | | **0.0001** |
| Di(2-ethylhexyl)-phthalate (DEHP) | 117-81-7 | | Non-Hazardous | **0.0013** | **0.008** |
| Diazinon | 333-41-5 | | Hazardous | **0.00001** | **0.0001** |
| Dibromoacetonitrile | 3252-43-5 | | ---- | | **0.07** |
| Dibromochloromethane | 124-48-1 | | ---- | | **1** |
| Dichloroacetate | 13425-80-4 | | ---- | | **0.05** |
| Dichloroacetonitrile | 3018-12-0 | | ---- | | **0.02** |
| Dichlorobenzenes (dissolved, sum of all isomers) | | | ---- | | |
| Dichloromethane | 75-09-2 | | Non-Hazardous | **0.02** | **0.02** |
| Dichlorprop (2-(2,4-dichlorophenoxy)propanoic acid) (2,4-DP) | 120-36-5 | | Hazardous | | **0.0001** |
| Dichlorvos (2,2-dichlorovinyl dimethyl phosphate, DDVP) | 62-73-7 | | Hazardous | **0.0000006** | **0.0001** |
| Dicofol | 115-32-2 | | Hazardous | **0.0000013** | **0.0001** |
| Dieldrin | 60-57-1 | | Hazardous | | **0.00003** |
| Dimethoate | 60-51-5 | | Hazardous | **0.00048** | **0.0001** |

| Contaminant | | | HAZARDOUS SUBSTANCE / NON-HAZARDOUS POLLUTANT | Environmental Quality Standards for freshwater surface waters | Combined Drinking Water Screening values |
|---|---|---|---|---|---|
| Diuron | 330-54-1 | | Hazardous | **0.0002** | **0.0001** |
| Edetic Acid - free acid (EDTA, Ethylenediaminetetraacetic acid) | 60-00-4 | | ---- | | **0.6** |
| E-mevinphos | 298-01-1 | | ---- | | **0.0001** |
| Endosulfan | 115-29-7 | | Hazardous | **0.000005** | **0.0001** |
| Endrin | 72-20-8 | | Hazardous | | **0.0001** |
| Epichlorohydrin | 106-89-8 | | Hazardous | | **0.0001** |
| Fenitrothion | 122-14-5 | | Hazardous | **0.00001** | **0.0001** |
| Fenoprop (2-(2,4,5-Trichlorophenoxy)propanoic acid) | 93-72-1 | | Hazardous | | **0.0001** |
| Fenthion | 55-38-9 | | Hazardous | | **0.0001** |
| Flufenacet | 142459-58--3 | | Non-Hazardous | | **0.0001** |
| Fluoranthene | 206-44-0 | | Hazardous | **0.0000063** | |
| Fluoride | 7681-49-4 | | ---- | | **1.5** |
| Fluroxypyr | 69377-81-7 | | Hazardous | | **0.0001** |
| Glyphosate ((N-(phosphonomethyl)glycine)) | 1071-83-6 | | ---- | **0.196** | **0.0001** |
| Heptachlor | 76-44-8 | | Hazardous | **2E-10** | **0.00003** |
| Heptachlor epoxide | 1024-57-3 | | ---- | **2E-10** | **0.00003** |
| Hexabromocyclododecane (HBCDD) | 25637-99-4 | | Hazardous | **0.0000016** | |
| Hexachlorocyclohexane (Lindane) (Gamma-HCH, Gamma HCCH) | 58-89-9 (608-73-1) | | Hazardous | **0.00002** | **0.0001** |
| Hydroxyatrazine | 2163-68-0 | | ---- | | **0.0001** |
| Iron | 7439-89-6 | | ---- | **1** | **0.2** |
| Isodrin | 465-73-6 | | Hazardous | | **0.0001** |
| Isoproturon | 34123-59-6 | | Non-Hazardous | **0.0003** | **0.0001** |
| Linuron | 330-55-2 | | Hazardous | **0.0005** | **0.0001** |
| Malathion | 121-75-5 | | Hazardous | **0.00001** | **0.0001** |
| Manganese | 7439-96-5 | | ---- | **0.123** | **0.05** |
| Mecoprop | 93-65-2 (7085-19-0) | | Non-Hazardous | **0.018** | **0.0001** |
| Methiocarb | 2032-65-7 | | Non-Hazardous | **0.00001** | **0.0001** |
| Methoxychlor | 72-43-5 | | ---- | | **0.0001** |
| Metolachlor | 1218-45-2 | | ---- | | **0.0001** |
| Mevinphos | 7786-34-7 | | Hazardous | | **0.0001** |
| Molinate | 2212-67-1 | | ---- | | **0.0001** |
| Monochloramine | 10599-90-3 | | ---- | | **3** |
| Monochloroacetate | 3926-62-3 | | ---- | | **0.02** |
| Nitrate (as NO-3) | 14797-55-8 | | ---- | | **50** |
| Nitrilotriacetic acid (NTA) | 139-13-9 | | ---- | | **0.2** |
| Nitrite (as NO2) | 14797-65-0 | | ---- | | **0.5** |
| N-Nitrosodimethylamine | 62-75-9 | | ---- | | **0.0001** |
| Nonylphenols (4-nonylphenol) | 104-40-5 | | ---- | **0.0003** | |
| o,p-DDE (o,p-Dichlorodiphenyldichloroethylene) | | | ---- | | **0.0001** |
| o,p-DDT (o,p-Dichlorodiphenyltrichloroethane) | | | ---- | | **0.0001** |
| o,p-TDE | | | ---- | | **0.0001** |
| Octylphenols (4-(1,1',3,3;-tetramethylbutyl)-phenol) | | | ---- | **0.0001** | |
| p,p-DDE (p,p-Dichlorodiphenyldichloroethylene | 72-55-9 | | ---- | | **0.0001** |
| p,p-DDT (para-para Dichlorodiphenyltrichloroethylene) | 50-29-3 | | ---- | **0.00001** | **0.0001** |
| p,p-TDE | 72-54-8 | | ---- | | **0.0001** |
| Parathion (Parathion-ethyl) | 56-38-2 | | Hazardous | | **0.0001** |
| Parathion-methyl | 298-00-0 | | Hazardous | | **0.0001** |
| Pendimethalin | 40487-42-1 | | Non-Hazardous | **0.0003** | **0.0001** |
| Pentachlorophenol (PCP) | 87-86-5 | | Hazardous | **0.0004** | **0.0001** |
| Perfluorooctane sulfonic acid (PFOS) | 1763-23-1 | | Hazardous | **0.00000065** | |
| Permethrin | 52645-53-1 | | Hazardous | **0.000001** | **0.0001** |
| pH | PH | pH Units | --- | **6-9** | **6.5<9.5** |
| Phorate | 298-02-2 | | Hazardous | | **0.0001** |
| Polychorinated biphenyls (PCBs) | 1336-36-3 (category) | | Hazardous | | |
| pp-Methoxychlor | 72-43-5 | | ---- | | **0.0001** |
| Propyzamide | 23950-58-5 | | Hazardous | | **0.0001** |
| Quinoxyfen | 124495-18-7 | | ---- | **0.00015** | **0.0001** |
| Simazine | 122-34-9 | | Hazardous | **0.001** | **0.0001** |
| Sodium | 7440-23-5 | | ---- | | **200** |
| Sodium dichloroisocyanurate | 2893-78-9 | | ---- | | **50** |
| Sulphate | 14808-79-8 | | ---- | **400** | **250** |
| Sum of benzo[b]fluoranthene & benzo[k]fluoranthene | | | Hazardous (Group) | | |
| Sum of benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[ghi]perylene and ideno[1,2,3-cd]pyrene | | | Hazardous (Group) | | **0.0001** |
| Sum of benzo[ghi]perylene and indeno[1,2,3-cd]pyrene | | | Hazardous (Group) | | |
| Sum of PCE and TCE | | | --- | | **0.01** |
| Terbuthylazine | 5915-41-3 | | Hazardous | | **0.0001** |
| Terbutryn | 886-50-0 | | Non-Hazardous | **0.000065** | **0.0001** |
| Tetrachloroethane | 79-34-5 | | ---- | **0.14** | |
| Ammoniacal N (total) as N | | Total Ammoniacal Nitrogen, or Total Exchangeable Ammonium (as N) | ---- | **1.1** | |
| Total pesticides | | | ---- | | **0.0005** |
| Phenols (Total) | PHENOLS | | ---- | | |
| Total Trihalomethanes (Total THM; sum of chloroform, bromoform, dibromochloromethane & bromodichloromethane) | | | --- | | **0.01** |
| Trans-Permethrin | 61949-77-7 | | ---- | | **0.0001** |
| Triadimefon | 43121-43-3 | | Hazardous | | **0.0001** |
| Tributyltin compounds | 56-35-9 | | Hazardous (Tributyltin oxide) | **0.0000002** | |
| Trichloroacetate (Trichloroacetic acid) | 76-03-9 | | ---- | | **0.0001** |
| Trichlorobenzenes | | | Non-Hazardous | **0.0004** | |
| Trichloromethane (Chloroform) | 67-66-3 | | Hazardous | **0.0025** | **0.1** |
| Triclopyr | 55335-06-3 | | Hazardous | | **0.0001** |
| Triclosan | 3380-34-5 | | ---- | **0.0001** | **0.0001** |
| Trifluralin | 1582-09-8 | | Hazardous | **0.00003** | **0.0001** |
| Triphenyltin | 1262-21-1 | | Hazardous (Triphenyltin oxide) | **0.00002** | **0.0001** |
| Un-ionised ammonia as nitrogen (NH3 as N) | | Un-ionised ammonia (Free Ammonia/Ammonia ion) as nitrogen (NH3 as N) | Non-Hazardous | | |
| Xylenes (Total of m and p, o-xylenes) | 1330-20-7 | | Hazardous | **0.03** | **0.5** |

| PAH | Mean ratio to BaP | | Lower limit | Upper limit |
|---|---|---|---|---|
| | Site Data | Culp et al Study | | |
| **Benz[a]anthracene** | 4.93 | 1.24 | 0.12 | 12.43 |
| **Chrysene** | 4.44 | 1.16 | 0.12 | 11.61 |
| **Benzo[b]fluoranthene** | 5.05 | 1.08 | 0.11 | 10.85 |
| **Benzo[k]fluoranthene** | 2.09 | 0.37 | 0.04 | 3.72 |
| **Dibenz[ah]anthracene** | 0.48 | 0.14 | 0.01 | 1.38 |
| **Indeno[123-cd]pyrene** | 2.19 | 0.73 | 0.07 | 7.27 |
| **Benzo[ghi]perylene** | 2.34 | 0.82 | 0.08 | 8.22 |

If cells green ratio is suitable to use BaP as surrogate marker

| PAH | Mean | Mean Ratio to BaP |
|---|---|---|
| Naphthalene | 25.69 | 5.44279661 |
| Acenaphthylene | 5.76 | 1.220338983 |
| Acenaphthene | 1.8 | 0.381355932 |
| Fluorene | 5.22 | 1.105932203 |
| Phenanthrene | 16.62 | 3.521186441 |
| Anthracene | 5.17 | 1.095338983 |
| Fluoranthene | 12.31 | 2.608050847 |
| Pyrene | 10.36 | 2.194915254 |
| Benzo(a)anthracene | 4.93 | 1.044491525 |
| Chrysene | 4.44 | 0.940677966 |
| Benzo(b)fluoranthene | 5.05 | 1.069915254 |
| Benzo(k)fluoranthene | 2.09 | 0.44279661 |
| Benzo(a)pyrene | 4.72 | 1 |
| Indeno(1,2,3-cd)pyrene | 2.19 | 0.463983051 |
| Dibenz(a,h)anthracene | 0.48 | 0.101694915 |
| Benzo(ghi)perylene | 2.34 | 0.495762712 |

| TPH Fraction | Residential GSAC 1% | Site Data (Mean) | Hazard Quotient |
|---|---|---|---|
| Aliphatic C5 – C6 | 42 | 0.02 | 0.00047619 |
| Aliphatic C6 – C8 | 100 | 0.59 | 0.0059 |
| Aliphatic C8 – C10 | 27 | 3.25 | 0.12037037 |
| Aliphatic C10 – C12 | 130 | 15 | 0.115384615 |
| Aliphatic C12 – C16 | 1100 | 63.7 | 0.057909091 |
| Aliphatic C16 – C35 | 65000 | 162 | 0.002492308 |
| Aromatic C5 - C7 (Benzene) | 70 | 2.25 | 0.032142857 |
| Aromatic C7 - C8 (Toluene) | 130 | 2.95 | 0.022692308 |
| Aromatic C8 – C10 | 34 | 14.06 | 0.413529412 |
| Aromatic C10 – C12 | 74 | 80.1 | 1.082432432 |
| Aromatic C12 – C16 | 140 | 169.5 | 1.210714286 |
| Aromatic C16 – C21 | 260 | 263.8 | 1.014615385 |
| Aromatic C21 – C35 | 1100 | 200.7 | 0.182454545 |
| **Hazard Index** | | | 4.2611138 |

| TPH Fraction | Commerical GSAC 1% | Site Data (Mean) | Hazard Quotient |
|---|---|---|---|
| Aliphatic C5 – C6 | 3200 | 0.02 | 0.00000625 |
| Aliphatic C6 – C8 | 7800 | 0.59 | 7.5641E-05 |
| Aliphatic C8 – C10 | 2000 | 3.25 | 0.001625 |
| Aliphatic C10 – C12 | 9700 | 15 | 0.001546392 |
| Aliphatic C12 – C16 | 59000 | 63.7 | 0.001079661 |
| Aliphatic C16 – C35 | 1600000 | 162 | 0.00010125 |
| Aromatic C5 - C7 (Benzene) | 26000 | 2.25 | 8.65385E-05 |
| Aromatic C7 - C8 (Toluene) | 56000 | 2.95 | 5.26786E-05 |
| Aromatic C8 – C10 | 3500 | 14.06 | 0.004017143 |
| Aromatic C10 – C12 | 16000 | 80.1 | 0.00500625 |
| Aromatic C12 – C16 | 36000 | 169.5 | 0.004708333 |
| Aromatic C16 – C21 | 28000 | 263.8 | 0.009421429 |
| Aromatic C21 – C35 | 28000 | 200.7 | 0.007167857 |
| **Hazard Index** | | | 0.034894423 |

If hazard index cell is Green additivity is not considered a concern
If hazard cell is red additivity needs to be taken into consideration

# Appendix E: Potential Sources of Contamination

Information on each source has been collated from previous reports. Information has been provided regarding laboratory analysis of soil and water data where undertaken within previous reports. Where exceedances have been noted, these relate to generic screening criteria as utilised within previous reports. It is noted that with regards to the historical reports, referenced screening values may not be applicable to the proposed residential end use or superseded criteria may have been adopted, however they have been used to provide context prior to the 2025 dataset.

| Source | Previous SI in source location* | Discussion |
|---|---|---|
| **On-site Sources** | | |
| Made Ground (including within areas of demolished buildings/ features not detailed below) | Areas A & B– multiple positions.<br>Area C – SHT5, BH53, BH54, BH55, BH57 | Various rounds of investigation encountered made ground across the entire site, with thicker made ground recorded in the southern area. Made ground was recorded up to 8.0 m depth in some areas around former gas works structures. Previous site investigations have indicated elevated concentrations of PAHs and phenols in the south of the site. Tar was recorded in the made ground around BH1 and BH2 (May Gurney, 1992). Localised areas around Block 1 (southern area) have been remediated however there is the possibility of sources of contamination beneath the uninvestigated areas. Significant thicknesses of made ground also poses the potential for harmful ground gases.<br>Wood (2018) note that, although results from made ground and shallow soils have not shown concentrations of significant concern for human health, the majority of sources at the site, particularly in the southern site area have not been targeted for investigation (mainly due to the presence of buildings).<br>Within Area A, lead was elevated above residential end use in a total of four of the 32 samples taken by Wood (2020). Limited gas and vapour monitoring has been conducted in Area A. Made ground was typically 0.5m thick with a maximum thickness of 1.1m. Limited exceedances of leachable concentrations were observed.<br>Within Area C, it is unclear as to where the made ground extends to, with one borehole (SHT5) drilled in 1993 not differentiating made ground deposits. It is assumed to have been to encountered from ground level to 2.8m bgl.<br>Instances of free cyanide, PAHs and lead above residential criteria were noted within soils. Cyanide, ammonium, PAHs, metals and TPH were recorded within soil leachate which was reflected within groundwater samples. The general Made Ground composition is reflective of typical gasworks type contaminants across the site. |
| Hotspots of free phase product (NAPL) within made ground deposits to the west of Blocks 1, 2, and 3 (some of which may be associated with former cast iron square tar tank) | Boreholes along the southwestern boundary.<br>Cast iron square tar tank: MW25-18, WS4 – WS8, MG9, BH74 and BH76, CBH111A, CBH111B, CBH111C, BH20, BH21 | A cast iron square tank (16 m2 x 2 m) was found, southwest of building Block 2, during the replacement of cables beneath a roadway onsite (Celtic Desk Study, 1999). Celtic detail that remediation was undertaken as part of the Capital Project 241 by British Gas Scientific Services in 1993, however the location of the tank has not been provided. The tank was believed to have been ruptured during the construction of the access road in approximately 1972. The surrounding contaminated soil and shallow waters encountered were removed with the tank itself. Celtic summarise that approximately 312 $m^2$ of material was disposed of as 'special waste', comprising tarry soils contaminated with phenols, PAHs, and ammonia. AMEC (2018) suggest that the well is located on the southwest boundary with an adjacent borehole encountering tar in silts and high PAH, phenols, TPH and ammonia in groundwater. Soil samples from nearby boreholes (BH74 and BH76) contained concentrations of arsenic, mercury and PAHs to 4.0 m bgl. MG9 encountered black tarry silt over a concrete slab at 3 m bgl. CBH111A was terminated at 1.2 m bgl but noted no hydrocarbon odours.<br>Hotspots of NAPL were encountered in the made ground deposits to the west of Blocks 1, 2, and 3, one of which potentially relates to the cast iron square tar tank removed in 1993 (identified in AMEC, 2018). Boreholes along the southwestern boundary noted hydrocarbon odours & staining within the made ground.<br>MW25-18 was positioned to target the former tar tank. Three meters of Made Ground was encountered onto concrete and brick to 3.4 m bgl with subsequent natural clay below. A mild burnt tar odour was noted on the concrete and underlying clay. Concentrations of contaminants within soil samples taken from MW25-18 were generally low or below the detection limit. Cyanide, ammonium, fluoranthene, chromium and copper were however above water quality standards within leachate. Cyanide, sulphate, ammonium and metals were detected within groundwater, however PAHs, BTEX and TPH were all below detection limits.<br>In general, the 2025 investigation did not record significant free product within Made Ground deposits outside or former structures, with the exception of MW25-16A which recorded pockets of tar between 1.75 to 1.85 m bgl and elevated concentrations within groundwater (shallow installation installed within the Made Ground). This borehole is located along the western boundary. |
| Asbestos within soils | Area A – HP25-01, HP25-02, HP25-03, HP25-04, MW25-03, MW25-06, TP25-01, TP25-03, VW25-02, VW25-03, VW25-24, WS07 & WS08<br>Area B – multiple positions.<br>Area C – MW25-26, MW25-28A, TP25-14, TP25-16, VW25-05, VW25-06 & VW25-07 | Celtic (1993) reported that asbestos was removed from the southwestern boundary between the former Hosiery Factory and site. There were also buildings noted on site during a walkover completed by Mewies Engineering Consultants (MEC) (2020) that appear to have potential asbestos cement tiles. Backfilled waste used to infill the gasholders during the 1993 may contain asbestos.<br>Asbestos is the form of amosite, chrysotile and crocidolite free fibres up to 0.018 % was encountered within Area B. No asbestos was detected within Areas A and C during the 2025 investigation. However, Wood (2002) identified chrysotile asbestos within WS07 (0.5-0.5 m bgl: 0.0046%) and WS08 (0.1-0.2 m bgl: 0.0284%) within Area A. Dustiness testing was undertaken on both samples and it was concluded that there was limited potential for fibres to be released from the soils. |
| Former refuse tip (and infilled gravel pit) | MW25-04A, MW25-07, MW25-35, MW25-36, TP25-19, TP25-22, TP25-23, VW25-20, VW25-21A, CBH101, CBH102, CBH103A, CBH103B, | A refuse tip, located beneath the building footprints of Blocks 3 and 4, was shown on historical maps between 1968 and 1971. A gravel pit was recorded covering a smaller area on historical maps dated 1961-1963. A level change occurs through the centre of the former refuse tip/gravel pit area.<br>In the north (lower elevation), Made Ground was encountered to between 1.2 and 3 m bgl. Instances of anthropogenic material including charcoal, ash and wood were noted within some locations. Moderate to strong hydrocarbon odour and frequent black staining was noted within the Made Ground between 1 and 2 m bgl in TP25-19; mild to moderate odours and a slight silvery sheen was recorded within the Wolston Sand and Gravel below to 3 m bgl. Moderate tar/hydrocarbon odours, black staining and silver sheens were noted within the Made Ground between 2 and 3 m bgl within MW25-36, which is also cited within the former reservoir; very faint odours were noted within the Wolston Sand and Gravel below. No visual or olfactory evidence of contamination was |

| Source<br><br>On-site Sources | Previous SI in source location* | Discussion |
|---|---|---|
| | BH27, SHT11, CT02, CT03, | noted within CBH101.<br><br>In the south (higher elevation), Made Ground was encountered to between 1.1 and 3.45 m bgl. Instances of anthropogenic material including coke, clinker, ash, charcoal and occasional wood were noted within some locations. CBH102 noted very strong hydrocarbon contamination and oil material/black oily patches within the Made Ground between 1.2 and 2 m bgl, and a strong hydrocarbon / phenol odour within natural sand below to 3.8 m bgl. CBH103A noted a strong hydrocarbon odour within the Made Ground before terminating at 1.9 m bgl. CBH104 (just outside the suspected refuse pit) also recorded very strong hydrocarbon odour within the base of the Made Ground, which did not extend into the natural soils below. No visual or olfactory evidence of contamination was noted within MW25-07 or MW25-35.<br><br>Some exceedances of the residential human health criteria were noted within soils for PAHs, arsenic, lead and cyanide. Exceedances of water quality standards were recorded within leachate samples for cyanide, ammonium, PAHs, metals and TPH aromatic C12-35; exceedances of cyanide, sulphur, chloride, ammonia, copper and nickel were encountered relatively consistently within groundwater, with sporadic or low exceedances of phenol, PAHs, iron, cadmium and zinc. |
| Infilled Gasholder A (including residual tar and perched waters) | MW25-23B, DBH2, DBH4, CBH121C | Gasholder A was a below-ground Victorian-era gasholder tank located in the southwest of Area B. Gasholder A is partially located beneath the former Block 1 and was believed to be 9.1m in diameter and 6m deep (Celtic, 2005 & Worley Parsons, 2013). Anecdotal evidence suggests that Gasholder A was converted to a tar and liquor storage tank after the construction of other larger gasholders (Gasholder 1 and 2). Various reports detail potential remediation works on the gasholders, however the exact details are unclear and conflicting evidence has been provided. In 1993, an in-ground tar well and the contents of two liquor wells (Gasholders A and B) were removed (Celtic, 1999). Celtic (1999) describe remediation undertaken as part of the Phase II Capital Project 241 comprised the removal of 36m$^3$ contaminated material southwest of Block 1; the source of which was believed to be Gasholder A though the gasholder was not investigated at this time due to the building. Free phase contamination was recorded in a sand band outside this structure between 3m bgl and 5m bgl and in groundwater, which was encountered at 5m bgl at this location. The Celtic Data Review (2011) states that Dense Non-Aqueous Phase Liquid (DNAPL) contaminated material may remain in the base of Gasholder A; however this is in conflict with Celtic (2003) which states that it was excavated and backfilled with 'clean' fill in 1998. WorleyParsons (2013) note that a total of 1068 m$^3$ of contaminated material was removed around Gasholder A in 1993 and infilled with clean materials with the tank left in-situ. Walter Lawrence estimated during the Phase II Capital Project 241 that Gasholder A holds 55m$^3$ of tar and 65m$^3$ of waste soil, however WorleyParsons (2013) indicates that Celtic (2011) noted a residual later of tar (0.6 m) is recorded within the base of Gasholder A.<br><br>MW25-23B was positioned within the suspected footprint of Gasholder A based on historical maps and previous reports; DBH4 was assumed to be located within Gasholder A based on drawings provided within the Celtic Progress Reports. Logs for DBH2 and DBH4 were only provided to Worley Consulting during the final stages of the investigation and the accompanying report has not been provided. MW25-23B encountered orange brown sand to 7.9 m bgl, stained back from 4.9 m bgl. This material was impacted with strong hydrocarbon odours, sheens and pockets of NAPL from 4.10 m bgl. Below, greyish brown silt with sand layers was encountered; this was also impacted with strong hydrocarbon odours, black staining and visual product becoming lesser at 9.2 with no odours or impact observed at 9.9 m bgl. DBH2 and DBH4 also encountered sand to 10 and 9.5 m bgl respectively onto clay; the sand was impacted with strong hydrocarbon odours from 5 and 4 m bgl respectively, to the top of the underlying clay. Dark, terry substance was recorded within DBH4 from 8 to 9.5 m bgl. The borehole logs record the sand is natural rather than imported sand fill. The description of sand onto clay (sometimes with a band of silt) is very similar to that encountered within boreholes extending along the western site boundary, however it is also similar to the description of imported sand fill within the previous remediation works in Gasholder A and B and the sand encountered within DBH6 and DBH7 within Gasholder B that was described as Made Ground; though it is noted that this was encountered to a shallower depth of 7.5 m bgl. TP25-24 was excavated to target exposing the gasholder walls (due to the presence of services (gas, fibre optics and electrics) this trial pit was excavated by hand/vacuum excavation), however the presence of active groundwater abstraction wells restricted the positioning and various foundations were encountered within the trial pit. The gasholder wall was not encountered. Based on the exposed wall of Gasholder B, historical maps, and descriptions within previous reports, MW25-23B should be positioned within Gasholder A. It is possible that the gasholder walls were partially destroyed during the construction of Block 1, and that foundations (potentially piled) progressed through the gasholder. Alternatively, the gasholder is positioned further north-east, however strong odours and sheens were also noted within natural deposits to the east and north (up-hydraulic gradient).<br><br>Laboratory analysis of MW25-23B encountered: PAHs above the residential criteria within shallow soils; benzene and VOCs within deeper soils above the residential criteria / detection limit; PAHs and TPH above the residential vapour criteria within groundwater; high pH, cyanide, ammonium, PAHs, metals and TPH above water quality standards within leachate; cyanide, ammonium, creosols, phenol, PAHs, BTEX and TPH consistently within groundwater.<br><br>Groundwater monitoring within MW25-23B encountered DNAPL between 0.27 and 0.61 m in thickness; laboratory analysis showed this to be indicative of coal tar. It is clear that free phase contamination remains within the vicinity of Gasholder A. |
| Infilled Gasholder B (including residual tar and perched waters) | MW25-25, TP25-25, MG3, MG4, DBH6, DBH7 | Gasholder B was a below-ground Victorian-era gasholder tank located in the southwest of Area B. Worley Parsons (2013) suggests that Gasholder B is 9.1m in diameter and 4m deep, Celtic (2005) suggest the gasholder is 8.5 m in diameter and 4 m deep. Anecdotal evidence suggests Gasholder was converted to a tar and liquor storage tank after the construction of other larger gasholders (Gasholder 1 and 2). Free-phase tar was recorded in made ground in the vicinity of the tanks in MG3, MG4 and MG10 and groundwater exhibited high PAH, TPH, ammonia and phenol concentrations (Celtic, 2005).<br><br>In 1993, an in-ground tar well and the contents of two liquor wells (Gasholders A and B) were removed (Celtic, 1999). Gasholder B was emptied, cleaned and backfilled with 'clean' material. Celtic (2005) note that 720 m$^3$ of material was removed from GHB and disposed of it as special waste. The tank contained 50% tar & liquor, with rubble fill. The well structure was intact with little surrounding contamination however, there was some slight ingress of tarry fluids through the tank walls. This breach and old water/gas pipes were investigated. Bricks at the well base were removed, as well as the underlying clay to depth, so as to expose any evidence of tar leakage. The tank walls were washed and the tank backfilled with imported sand. Slit trenches dug adjacent to Coventry Road confirmed that migration was not occurring within the shallow ground. The Celtic report (2011) states that although remediation has taken place at Gasholder B, some residual contamination is present in the vicinity of the gasholder.<br><br>The curvature of the wall of Gasholder B was exposed within TP25-25 at 1.1 m bgl; due to the presence of services (gas, fibre optics and electrics) this trial pit was excavated by hand. MW25-25 was positioned within the suspected footprint of Gasholder B based on historical maps, previous reports and the exposed gasholder wall in TP25-25. MG3 and MG4 were excavated to 2.3 and 2 m bgl respectively in 1992 and encountered rubble fill with black tar contamination. DBH6 and DBH7 encountered Made Ground described as silty sand with a weak to strong hydrocarbon odour to 7.5 m bgl onto unimpacted clay. MW25-25 encountered Made Ground comprising hydrocarbon impacted sand to 4 m bgl (black plastic mesh recorded at 3.9 m bgl, black staining and moderate odours between 1.9 and 4 m bgl). Interlayered bands of sand and clay were noted below which were heavily impacted with odours, staining, sheens and pockets of product. No base was encountered within any boreholes which aligns to previous records suggesting the bricks at the base were removed. |

| Source<br><br>On-site Sources | Previous SI in source location* | Discussion |
|---|---|---|
| | | Laboratory analysis showed exceedances of the residential criteria within shallow soils for PAHs, and naphthalene, benzene and VOCs within deeper soils (vapour risk). Exceedances of naphthalene and benzene were noted for groundwater vapour however these weren't consistent. Fluoranthene, copper and iron were recorded above water quality standards within leachate, and cyanide, sulphate, ammonium, PAHs, metals and TPH were recorded consistently within groundwater. |
| Infilled Gasholder 1 (sub-surface structures. Including perched waters) | MW25-13A, MW25-33, TP25-04, TP25-05, TP25-06 & TP25-17<br><br>Two previous boreholes destroyed, their locations are unknown. | Gasholder No. 1 (below ground) was consstructed in the 1870's with a diameter of 15.2 m and suspected depth of 9.0 m bgl (Celtic, 2005 & Worley Parsons, 2013). Two nearby boreholes drilled in the vicinity of the structure in 1975 recorded 2-3 m of free-phase tar within the made ground northwest of the structure and tar-saturated clays and sand beneath 2-3 m of made ground south of Gasholder No. 1 (Celtic, 2005). No further details on the findings of these boreholes have been provided. It was unclear as to whether the identified contamination has arisen from the infilled gasholder, or other nearby structures. Both boreholes were destroyed and Gasholder 1 was emptied of tarry waste during the construction phase of Block 1 in 1979 (Celtic, 2005). Only verbal confirmation in 1998 that the tank was backfilled with clean imported materials in 1979 has been given (Celtic, 2005).<br><br>The 2025 ground investigation encountered Made Ground to 5 and 6 m bgl within MW25-13A and MW25-33, displaying black staining with a moderate-strong hydrocarbon odour and sheens between 2.5 - 2.7 and 3.9 – 4.2 m bgl within MW25-13A and from 3 m bgl to the base of the borehole within MW25-33. MW25-13A did not encounter a base, however the high cobble content made drilling difficult. Made Ground overlaid Wolston clay and subsequently sand which appeared to be unimpacted by hydrocarbons. MW25-33 was terminated at 6 m bgl due to an obstruction; potentially the gasholder base. The difference in Made Ground depth suggests a dumpling may be present. It should be noted that the depth varies to the suspected depth of 9 m bgl.<br><br>A concrete wall was encountered within TP25-04, approximately 0.65 m in width and a redbrick wall was encountered within TP25-06, approximately 0.46 m in width. Foundations were encountered within TP25-05 where the wall was suspected suggesting the gasholder may have been partially demolished as part of the building works. Various services were encountered within the trial pits and hydrocarbon odours and a silvery sheen was identified from 2.2 m bgl within TP25-05 and from 0.55 m bgl within TP25-06. The presence of a water filled excavation meant no investigation could progress along the eastern edge of the gasholder.<br><br>Water levels taken from MW25-13A and MW25-33 installed within the gasholder were generally shallower than surrounding levels; 108.72 and 109.05 m AOD compared to 105.75 m AOD to the south and 107.7 m AOD to the north in June 2025. This suggests that gasholder tank is retaining water.<br><br>Laboratory analysis showed exceedances of the residential criteria within shallow soils for PAHs, and cyanide, naphthalene, benzene and VOCs within deeper soils (vapour risk). Exceedances of TPH and 1,2,4-Trimethylbenzene were noted for groundwater vapour however these weren't consistent. Cyanide, ammonium, PAHs, metals, BTEX and TPH were recorded above water quality standards within leachate, and cyanide, ammonium, PAHs, metals, BTEX and TPH were recorded consistently within groundwater. |
| Infilled Gasholder 2 (sub-surface structures. Including perched waters) | MW25-10, MW25-30B, TP25-07, TP25-08, TP25-09, VW25-14, BH12. Additionally, one previous borehole destroyed (location unknown) | Gasholder No. 2 (below ground) was constructed in 1880's southeast of Gasholder No. 1. It had a diameter of 18.3 m and depth of 9.0 m bgl (Celtic, 2005 & Worley Parsons, 2013). The associated above-ground structure was removed in the 1950's. Contaminated materials were removed from the tank in 1970 during the construction of the HOC. A borehole (location unknown) was drilled in the footprint of the former gasholder structure and recorded made ground to depths between 6.6-7.5 m bgl with free-phase tar and sulphate concentrations. Based on information provided within previous reports, the borehole was thought to be within the gasholder and was subsequently destroyed in 1979 during the construction of Block 1. The tank was backfilled with clean imported materials in 1979. This was verbally confirmed in 1998 during a site visit undertaken by Celtic.<br><br>Celtic (2005) detail that 'significant tarry contamination has been identified within the Wolston Sands and Gravels probably relating to historical leakage of Gasholder 1 and 2'. Celtic (2008) note that a layer of LNAPL was detected in BH12 during groundwater monitoring, however 'anecdotal evidence indicates that there is no remaining structure associated with gasholder at shallow depths'. Analysis of groundwater data collected between 1993 and 2008 within Wood (2018) show that BTEX and TPH were present within groundwater within Gasholder 2.<br><br>The 2025 ground investigation encountered Made Ground to 6.3 and 5.3 m bgl within MW25-10 and MW25-30B, displaying black staining with a moderate to strong hydrocarbon odour and sheens from 1.85 m bgl within MW25-10 and from 2 m bgl within MW25-30B. No solid base was encountered within either borehole; stiff clay was encountered below the Made Ground which appeared to be unimpacted with hydrocarbons. BH12 was drilled within the suspected gasholder location in 1993 which encountered Made Ground to 5.2m, including fragments of coal towards the base, but no significantly impacted material was identified.<br><br>TP25-07 encountered a potential piled foundation slab pad at 1.5 m bgl. A redbrick wall trending east-west was encountered within TP25-08, with a width of 0.35 m, which appeared to be in poor condition. TP25-09 encountered a rectangular concrete slab approximately 0.4 m width x 0.10 m thick. Given the condition of the suspected gasholder wall encountered within TP25-08 and presence of various foundations and service runs, it is possible that the gasholder walls were partially destroyed during the construction of Block 1.<br><br>Water levels taken from MW25-10 and MW25-30B installed within the gasholder were generally shallower than surrounding levels; 108.87 and 109.02 m AOD compared to 105.75 m AOD to the south. This suggests that gasholder tank is retaining water.<br><br>Laboratory analysis showed no exceedances of the residential criteria within shallow soils. Naphthalene, benzene and 1,2,4-Trimethylbenzene were recorded above residential guideline values for volatile contaminants within deeper soils and groundwater. p-Isopropyltoluene was recorded above the detection limit within deeper soils, however no guideline criteria exists for residential vapour. No exceedances of the AQAC were noted within vapour samples from VW25-14 (except vinyl chloride where the detection limit is higher than the AQAC), however various VOCs and TIC VOCs were recorded above the detection limit. High pH and cyanide, ammonium, PAHs, metals, BTEX and TPH were recorded above water quality standards within leachate, and high pH, cyanide, sulphate, chloride, ammonium, PAHs, metals, BTEX and TPH were recorded consistently within groundwater. |
| Infilled Gasholder 3 (sub-surface structure. Including perched waters) | MW25-17, MW25-22, TP25-10, TP25-11, TP25-12, TP25-13, VW25-11A, SHT4, U8 | Gasholder No. 3 was constructed in the 1920's with a diameter of 36 m. The above-ground structure was demolished in the 1970's during the construction of the car park. It is unknown whether the tank was removed or left in-situ during the construction of the car park or if significant contamination was encountered. A borehole completed within the footprint of the structure (SHT4) in 1993 refused at 4.0 m on the potential base (Celtic, 2005). An oily odour was observed within the made ground. Perched water samples recorded elevated concentrations of phenol, PAHs, sulphate, ammonia, BTEX and heavy metals in excess of the nominated assessment criterion (Celtic, 2007). It is unknown whether the area was remediated. Analysis of groundwater data collected between 1993 and 2008 within Wood (2018) show that benzene, PAH and TPH were present in groundwater within Gasholder 3.<br><br>The 2025 ground investigation encountered Made Ground to 4.2 onto a concrete slab to 4.6 m bgl with natural sand below. Faint odours were noted within the Made Ground. Although no gasholder walls were encountered within TP25-10, TP25-11, TP25-12 or TP25-13, a distinct change in strata was noted within TP25-10 (Made Ground rubble within the south of the pit and sandy silt which appeared natural within the north of the pit), suggesting that the gasholder walls may have been partially removed. TP25-11 and TP25-13 at the south of the gasholder encountered a concrete flat concrete base at 1.5 and 1.3 m bgl respectively; given previous details this is unlikely to be the gasholder base. TP25-12 progressed to 1.9 m bgl but was terminated due to water |

| Source<br><br>On-site Sources | Previous SI in source location* | Discussion |
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| | | ingress; the water was noted to have a strong sulphuric/hydrocarbon odour. SHT4, drilled in 1993, encountered a hard base at 3.95 m bgl and noted an oily odour below 0.75 m and degraded organic matter used in the fill produced a dark green, pungent slime/mulch below 3 m bgl.<br><br>Water levels taken from MW25-17 and MW25-22 installed within the gasholder were generally shallower than surrounding levels; 109.59 and 109.60 m AOD compared to 106.76 m AOD to the south and 106.47 m AOD to the west in June 2025. This suggests that gasholder tank is retaining water.<br><br>Laboratory analysis showed exceedances of the residential criteria within shallow soils for PAHs only. Volatile contaminants were below the residential criteria within deeper soils. Mercury marginally exceeded the residential criteria for groundwater vapour. No exceedances of the AQAC were noted within vapour samples from VW25-11A (except vinyl chloride where the detection limit is higher than the AQAC), however various VOCs and TIC VOCs were recorded above the detection limit. High pH, cyanide, ammonium, trimethylphenol, PAHs, copper, benzene and TPH were recorded above water quality standards within leachate, and high pH, conductivity, cyanide, sulphate, chloride, ammonium, phenols, PAHs, metals and TPH were recorded consistently within groundwater. |
| Infilled Gasholder 4 (above ground structure) | MW25-26, TP25-14, TP25-15, TP25-16, VW25-07, BH57 | Gasholder No. 4 was constructed in the 1930s. Celtic (2003) notes that this gasholder was above ground. Celtic (2005) suggest the gasholder was dismantled in approximately 1977-1978 by the Gas Board and the sunken ground infilled and covered in 1993 to provide additional car parking places. The concrete base (ring beam) is reported as left in-situ (WorleyParsons, 2013).<br><br>The 2025 ground investigation encountered Made Ground to 1.2 m bgl, with a concrete slab between 0.6 and 0.85 m bgl, overlying Oadby Till and subsequently Wolston Sand and Gravels. TP25-14, TP25-15 and TP25-16 encountered a concrete slab between 0.77 and 1.4 m bgl; deeper in the east which is reflected by a higher ground elevation. No odours or staining was recorded within any intrusive location.<br><br>Lead was identified within shallow soils above the residential criteria. No exceedances of the residential guideline values for soil vapour were observed within Area C, however various VOCs and TIC VOCs were recorded within vapour samples above the detection limit. MW25-26 installed within the Wolston Sand and Gravel was dry during monitoring, however MW25-28A, located down hydraulic gradient was sampled. A leachate sample showed elevated ammoniacal nitrogen, copper, iron and lead however groundwater concentrations were generally low or below detection with the exception of copper and nickel. |
| NAPL in Sand and Gravels (Area B) | Primarily boreholes along the southern and western boundaries | NAPL has been visually observed during drilling and during groundwater monitoring along the western and southern boundaries of the site (Wood, 2018). The site currently operates a hydraulic containment system on the western site boundary line to prevent the off-site migration of NAPL to reduce off-site liabilities with respect to human health, as well as providing semi-effective protection of the Secondary A Aquifer (Wood, 2018).<br><br>The most recent progress report on the containment system was for Q3 2019 (Celtic, 2020) which noted that approximately 1,374 kg calculated dissolved phase hydrocarbon mass, 9,069 kg DNAPL and 1,793L LNAPL product was recovered via the hydraulic containment system since the start of the project.<br><br>Celtic (2008) assumed a NAPL source in the Wolston Sand and Gravel in the south of the site based on observed impacts at CBH116, CBH117, CBH121 and MG10 to the south west of Block 1 and CBH128 to the south east of Block 2. WYG (2014) considered that the NAPL impacted zone is more extensive than previously assumed most notably due to additional impacts observed at CBH102 to the north-west of Block 3 and along the entire boundary south east of Block 1. LNAPL has also been identified to the west of Block 2 at CT04 and at the location of Gasholder No. 2 at BH12.<br><br>WYG (2014) note that the steady rate of dissolved phase hydrocarbon mass recovery suggests that slow dissolution of hydrocarbon contamination is arising from a relatively constant NAPL source.<br><br>Celtic (2005) noted that a thick black sludge was observed by an Environmental Health Officer (EHO) in 2001 within a brick lined structure during the construction of the Satellite Dish base, possibly organic matter and hydrocarbon contamination. An Incident Response Report was completed by the EHO.<br><br>Within Area A, no NAPL was recorded during the 2020 site investigation or during the return monitoring visits using an oil / water interface probe (Wood, July 2020).<br><br>The 2025 ground investigation recorded strong odours, sheens and staining within the Wolston Sand and Gravels during drilling within various locations, primarily within MW25-16A, MW25-20, MW25-27, MW25-23B, MW25-29, MW25-34 and MW25-35 located to the west and south of Area B. Measurable DNAPL was only recorded during monitoring within MW25-23B ranging in thickness between 0.27 and 0.61 m. Laboratory analysis confirmed this to be coal tar. |
| Contaminated groundwater in Sand and Gravels | All | Elevated concentrations of inorganics, BTEX, phenols and PAHs have been recorded within groundwater samples collected from wells installed within the superficial deposits. Contamination appears to be highest across the south and southwestern boundaries, corresponding to groundwater flow direction (Wood, 2018).<br><br>Within Area B, groundwater in the Wolston Sand and Gravels (Secondary Aquifer) showed limited exceedances of their nominated screening criteria of metals TPH and naphthalene (Wood, 2020). Wood (2020) noted that total cyanide is present in boreholes CT01, CT02/CT03, BH36 and CBH101 and appears to have been widespread in the Sands and Gravels between 1993 and 2008.<br><br>Data collected within the 2025 ground investigation correlated with previously noted exceedances observed within the Sand and Gravels within Area B. Elevated cyanide, conductivity, sulphate, chloride, ammonium, metals were encountered across the site. Cresol, phenol, PAHs, BTEX and TPHs were generally encountered within the former process area of the site. Monitoring within upgradient wells suggest that copper and nickel may be widespread within the area. |
| Primary purifiers | MW25-11, TP25-21, VW25-01, BH30 | Primary purifiers were constructed in the early 1920s, located to the southwest of Block 5. It is unknown whether these areas underwent remediation during the construction of the HOC. BH30 was completed within the footprint of the former structure, however logs and chemical data has not been provided to Worley Consulting for review. Celtic (1999) suggests that spent oxide had been potentially identified during site works in February 1999. AMEC (2018) noted that Celtic's 1999 investigation encountered loose odorous made ground with brick and ash to 3-4m bgl. Heavy metals were recorded within shallow soils adjacent to the west side of Block 2 by Wood (2018), who suggested that this may be related to former purifiers. Additionally, cyanide was detected within groundwater to the west of blocks 2 and 3 (Wood, 2018).<br><br>A potential purifier was also identified in AMEC (2019) located on the southwest boundary, to the north of former Gasholder A. It is unknown whether these areas underwent remediation during the construction of the building blocks. No investigation of the suspected purifiers to the north of former Gasholder A could be completed in 2025 due to the proximity with active wells used as part of the hydraulic containment unit.<br><br>TP25-21 was excavated below the former Block 5 and was terminated at 1.7 m bgl due to a hard flat obstruction across the base of the pit: potentially a former foundation of Block 5. VW25-01 |

| Source<br><br>On-site Sources | Previous SI in source location* | Discussion |
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| | | was terminated at 0.8 m bgl due a brick structure. MW25-11 encountered Made Ground to 1.8 m bgl directly overlaying Wolston Sand and Gravel.<br>No odours or staining were observed within Made Ground or natural soils any location. Free cyanide was encountered within the Made Ground in TP25-21 and VW25-01 but was below the detection limit within MW25-11. PAHs and metals were detected within soils. Groundwater samples from within the Wolston Sand and Gravels encountered total cyanide above drinking water samples, but free cyanide was below detection limits. Copper and nickel were encountered above the EQS within all monitoring rounds, and sporadic elevated concentrations of sulphate, chloride, phenol, iron and zinc were recorded. PAH, BTEX and TPH concentrations were all below detection limit within groundwater. |
| Purifier catch boxes | MW25-14, TP25-20, BH24 | Purifier catch boxes were constructed in the 1920s and are located beneath Block 2. It is unknown whether these areas underwent remediation during the construction of the building blocks. AMEC (2018) noted that Celtic's 1999 investigation encountered loose odorous made ground with brick and ash to 3-4m bgl. Heavy metals were identified within shallow soils adjacent to the west side of Block 2 by Wood (2018), who suggest that this may be related to former purifiers. Additionally, cyanide was detected within groundwater to the west of Blocks 2 and 3 (Wood, 2018).<br>Corbelled brickwork was encountered leading to a concrete base slab circa 0.4 to 0.5 m thick, at around 2 to 2.2 m bgl. A strong sulphuric, tar and sweet odour was noted within the base of the structure.<br>Water levels taken from MW25-14 installed within the structure were generally shallower than surrounding levels; 108.88 m AOD compared to 106.21 m AOD to the west and 106.47 m AOD to the east in June 2025. This suggests that structure is retaining water.<br>Elevated PAHs were noted within shallow soils, with high pH, cyanide, ammonium, PAHs, metals and TPH recorded within deeper soils. This was reflected within water samples from within the structure. A downgradient monitoring well (MW25-18) recorded exceedances of total cyanide, sulphate, ammonium, iron and nickel at much lower concentrations, and PAHs and TPHs below the detection limit. This suggests that contaminants may not be fully contained within the purifier catch boxes. |
| Former brick structures with timber base | MW25-09C | Three rectangular features were recorded on historical maps towards the centre of the western site boundary. No further details or previous investigation has been provided.<br>MW25-09C was undertaken within this area, which encountered a redbrick structure to 7 m bgl with a suspected timber base / Made Ground to 9.45 m bgl onto very stiff clay. Black staining and odours were noted on the structure, with NAPL globules and sheens within the timber/Made Ground below. The natural clay did not appear to be impacted. It is suspected that MW25-09C was processed along the inside of a former structure wall, which is likely containing a varying degree on hydrocarbon contamination and free product.<br>Laboratory analysis showed exceedances of the residential criteria within shallow soils for PAHs and lead and volatile naphthalene at 8.4 m bgl. A monitoring well installed within the base of the structure did not show volatiles above the residential AQAC within groundwater samples. Cyanide, ammonium, fluoranthene, copper and TPH were encountered within leachate samples at 8.4 m bgl and groundwater analysis showed consistent exceedances of cyanide, ammonium, iron, copper and TPH. A downgradient monitoring well (CBH108) showed similar concentrations of total cyanide, sulphate, iron and copper. TPHs were below detection limit but ammonium concentrations were higher downgradient. This suggests it is unlikely that significant hydrocarbon contamination is migrating from the former structures, and that dissolved phase contamination is similar both inside and outside of the structures. |
| Scrubbers and condensers | MW25-16A | The former scrubbers and condensers were located beneath/between Blocks 1 and 2 and are largely uninvestigated due to the buildings. All above-ground structures were demolished in the 1960's however below-ground structures and associated pipework likely remain in-situ. AMEC (2018) note that a sample taken from 6 m bgl within CBH116 (located to the south of the condensers) exhibited naphthalene to 1400 mg/kg.<br>MW25-16 was excavated within the vicinity of the former scrubbers, downgradient from the suspected condensers. Made Ground was encountered to 1.85 m bgl and noted a strong hydrocarbon (fuel and tar) odour with a silvery sheen and small pockets of tar. The contamination continued into the natural clay below, with black product noted in fissures and sandy gravel layers. Clay extended beyond the base of the borehole (5.4 m bgl), with contamination no longer present from 4.5 m bgl. A dual installation was installed to target the shallow Made Ground and any groundwater contained within sandy bands/fissures.<br>PAHs above residential guidelines were noted within shallow soils, with exceedances of volatile contaminants (PAHs, benzene and 1,2,4-Trimethylbenzene) within deeper soils and various volatile contaminants were recorded within groundwater. A leachate sample presented elevated total cyanide, ammonium, PAHs, metals, benzene and TPH, and groundwater samples (both shallow and deep) showed consistently elevated conductivity, total cyanide, chloride, phenol, PAHs, metals, BTEX and TPH. Significantly high ammonium was recorded within the deeper installation and the shallow installation showed elevated sulphate. It should be noted that, outside of former features such as gasholders and purifiers, MW25-16A-D recorded the highest conductivity, chloride and ammonium, with MW25-16A-S recording the highest concentrations of PAHs in groundwater. |
| Oxide shed | MW25-12, BH28 | The former oxide shed is located northeast of Block 2 and was constructed in the early 1920s. The above-ground structure was demolished during the 1960s. The oxide shed was partially investigated (Celtic, 1999), however remains largely uninvestigated due to the presence of Block 2.<br>MW25-12 encountered Made Ground to 1.8 m bgl with a faint burnt odour over natural clay 2.4 m thick. No odours or staining were observed within natural soils.<br>Free cyanide and PAHs were noted within shallow soils. Elevated total cyanide, ammonium and copper were recorded within both leachate and groundwater samples. TPH BTEX and phenols were all below detection limits. |
| Benzol washer | MW25-32, VW25-18, BH67 | The benzol washer was constructed in the early 1920's. All above-ground infrastructure was demolished in the 1960s, however below-ground structures and associated pipework likely remain in-situ.<br>MW25-32 encountered Made Ground to 1.7 m bgl with concrete and brick between 1.15 and 1.5 m bgl. Faint hydrocarbons were noted below the concrete and within the top of the underlying natural clay. Clay was encountered to 6.1 m bgl.<br>Benzene and 1,2,4-Trimethylbenzene were encountered at 1m but shallower soils were below residential guideline criteria. Elevated ammonium, PAHs, metals, BTEX and TPH above water quality standards were noted within the Made Ground. Within groundwater, **significantly high ammonium was observed**; whilst soil concentrations were high, they do not appear to reflect levels observed within groundwater. Constantly elevated conductivity, copper and sulphate were recorded however phenols, TPH and BTEX were below detection and PAHs were generally low. |
| Boiler house | MW25-21, BH7, BH8 | The boiler house was constructed in the early 1920s and was predominantly used for heating and producing steam. All above-ground structures were demolished in the 1960's however below-ground structures and associated pipework likely remain in-situ. Potential contaminants associated with the former boiler house include heating oil and coal - there is the potential for a storage |

| Source<br><br>On-site Sources | Previous SI in source location* | Discussion |
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| | | tank(s). It is unknown if any remediation occurred during the demolition.<br>Minimal Made Ground was encountered within MW25-21 (0.6 m bgl), overlying natural sand. No odours or staining were observed.<br>No exceedances of residential criteria were recorded within soils. Elevated fluoranthene, total chromium, copper, iron and lead however this was not reflected within groundwater, with the exception of copper. Groundwater concentrations were generally low, with PAHs above detection only encountered within the last monitoring round. |
| Diesel tanks | MW25-34, BH76, WS1, WS2 | There are two diesel generators onsite adjacent to Blocks 1 and 2. They are located adjacent to the electricity switch rooms. Diesel is held in tanks raised above the ground with brick supports (Celtic, 1999). There is the potential for historic leaks and subsequent contamination within the vicinity of the tanks.<br>WS1 and WS2 recorded Made Ground to 2.8 and 3 m bgl with coal ash noted. Sand was underlying between 0.5 and 0.8m in thickness onto clay. The sand within WS2 was noted to very odorous, but the underlying clay had no odours.<br>MW25-34 recorded Made Ground to 2.7 m bgl with cast iron features towards the base. No significant odours or staining were recorded within the Made Ground or underlying clay however yellow staining was recorded within sands between 5.5 and 5.6 m with a strong hydrocarbon odour from 6.0 m and rainbow sheens from 6.3 m bgl. Black staining and pockets of NAPL were observed between 8.0 and 8.2 m bgl.<br>Free cyanide and naphthalene were recorded within shallow soils and naphthalene and benzene were above residential values within deeper soils. High pH, total cyanide, PAHs, copper, iron, and TPH were recorded within leachate samples with consistently elevated ammonium and TPH within groundwater |
| Retort houses, exhauster/pump house | MW25-27, MW25-29, VW25-12, MW25-20, CBH124, BH65, BH35, MG6, BH45, BH47, BH56, BH15, BH14, RBH3, CBH117A, RBH2, CBH116, BH33, BH15 | Retort House 1 (RH1) is located south of Block 1 and Retort House 2 (RH2) is located to the west in the southern area. There was a possible third retort house (RH3) located along the southern boundary below or adjacent to Block 1. Information provided within Celtic (2005) indicates that the western side of RH1 was remediated in 1993. It is unknown whether the area around RH2 and RH3 was remediated. The former Exhauster/Pump House was located beneath Block 1 and was largely uninvestigated due to the building. The above-ground structures were demolished in the 1960's and foundations were left in-situ. It was unclear during the remediation in 1993 how far the foundations of RH1 extended. Vapour monitoring was completed and there was no indication of vapours within former buildings prior to demolition. Potable water samples were collected from the retort houses, and it was confirmed that the service pipes were not affected by contamination within the made ground.<br>MW25-27 encountered Made Ground onto a concrete and brick obstruction between 1.2 and 2 m bgl, with natural clay below. Yellowish staining with a hydrocarbon odour and rainbow sheen was noted within the natural clay, with black mottling and small pockets of tar between 4.1 and 5 m bg. Dark grey staining, sheens and strong hydrocarbon /tar odours were noted within the underlying sand to 6.9 m bgl. Additionally, a moderate almond odour was noted within the sands between 7.5 and 7.7 m bgl. MW25-29 encountered Made Ground to 2.35 m bgl with no significant odours or staining recorded. Underlying clay had a faint odour and a silvery sheen and moderate tar odour was recorded within the sand below from 8.4m bgl to 10.2 m bgl.<br>PAHs and arsenic were encountered within shallow soils, and naphthalene, benzene and 1,2,4-Trimethylbenzene were encountered within deeper soils and within groundwater vapour (alongside TPH). Elevated total cyanide, ammonia, creosols, PAHs, metals, BTEX, TPH were encountered within leachate which were refleted within groundwater samples. |
| CWG Plant | MW25-20, TP25-18 | The CWG Plant was situated beneath Block 1. Boreholes were completed within the former footprint of the CWG plant (British Gas Scientific Services, 1993); however, the complete logs have not been provided to Worley Consulting and the positions are unknown. The above-ground structures were demolished in the 1960's however below-ground structures and associated pipework likely remain in-situ.<br>Made Ground was encountered to between 1.6 and 2.6 m bgl overlying natural clay. No significant odours or staining was observed within the Made Ground, however a layer of suspected pulverised fuel ash was noted at 1.5 m bgl within TP25-18. Mild to moderate hydrocarbon odours and a slight sheen was noted within the underlying clay with strong odours and sheen noted within the subsequent sand. TP25-18 encountered a concrete and redbrick structure with associated metal pipework and suspected small chimney in the south of the excavation. Arsenic, PAHs, BTEX and TPHs were noted within soils and volatiles were recorded within groundwater (naphthalene, benzene and TPH). Ammonium, PAH, copper, iron, lead and TPH were recorded within leachate samples above water quality standards. Total cyanide, ammonium, phenol, PAHs, copper, BTEX and TPH were recorded within groundwater. |
| Settling Tanks (1968) | MW25-01, VW25-22 | The settling tanks are shown in the north of Area B on mapping from 1968. Historical mapping shows a drainage line and tributary to Battling Brook passing through the site, trending north-east to south-west, via the settling tanks. It is unclear whether these structures remain below-ground or act as a pathway for contaminated groundwater within the made ground and superficial deposits. There is a potential that these tanks were infilled, however details surrounding this, including the composition of any infill material are unknown.<br>Made Ground was encountered to 0.85 m bgl overlying natural sand. Occasional wood was noted within the Made Ground with a light to moderate tar odour and black staining. A mild organic odour was recorded within the underlying sand. PAHs were recorded within the Made Ground soils above residential criteria. No exceedances of residential criteria were recorded within soils, vapour or groundwater. Total cyanide, ammonium, PAHs, metals and TPH were recorded within leachate, however ammonium, copper and nickel were consistent within groundwater. PAHs, phenols, BTEX and TPH were all below detection limits. |
| Reservoir (1924) | MW25-36 | Historic mapping shows a reservoir present within the north of Area B associated with the spring lines, drainage channels and settling tanks. It is unclear whether any below-ground structures associated with the reservoir remain or if it provides a pathway for contamination within groundwater. There is a potential that the reservoir was infilled, however details surrounding this, including the composition of any infill material are unknown.<br>Made Ground was encountered to 3 m bgl with moderate tar/hydrocarbon odours with black staining and a silver sheens from 2 m bgl. Faint hydrocarbon odours were recorded within the underlying sands. No exceedances of the residential criteria were noted within shallow soils, however volatile free cyanide was encountered within deeper Made Ground soils. Total cyanide, copper, mercury, nickel and low concentrations of ammonia were recorded within leachate. Within groundwater, total cyanide, sulphate, ammonium, copper and nickel were recorded above water quality standards. Hydrocarbons were below detection limits within leachate and groundwater samples. |
| Diesel generator and electricity substations | MW25-35 | Celtic (2005) noted that red diesel was contained in tanks raised from the ground with brick supports and secured in a brick shed. Tanks are raised with a bund enclosed in secure hard cover meaning any spillages would be minimal and contained. A HV switch room is present adjacent to the site entrance and former (demolished) substation was recorded southwest of Block 3, within area B. |

| Source | Previous SI in source location* | Discussion |
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| **On-site Sources** | | |
| | | Made Ground was recorded within MW25-35 to 1.1 m bgl overlying natural clay. No visual or olfactory evidence of contamination was noted. No exceedances of the residential human health criteria were noted within shallow soils however naphthalene was recorded at 1 m bgl. Exceedances of water quality standards were recorded within leachate samples for total cyanide, PAHs and metals; exceedances of total cyanide, sulphate, chloride, ammonia and copper were encountered relatively consistently within groundwater. No PCBs were encountered within groundwater from ME25-35 or CBH129 (to the south of block 1) |
| Coke Tip | Multiple current an historical boreholes within Area A | A former coke tip is mentioned within Celtic (2005) as being located in the 'main car park' – Area A. The report notes that little information known about the tip. Ash and coal dust may be present in the area.<br>Made Ground within Area A was encountered to between 0.5 and 1 m bgl during the 2025 investigation. Whilst instances of coal and clinker were noted within field logs, there is little evidence that significant contamination has arisen from the potential former use as a coke tip. Exceedances of the residential criteria for arsenic and lead were noted within the shallow Made Ground. Ammoniacal nitrogen as N, total chromium, fluoranthene, lead, nickel, iron and copper were recorded within leachate samples. Fluoranthene was below the detection limit within all groundwater samples suggesting it is not mobilising to groundwater. Groundwater exceedances of the EQS (copper, nickel and zinc) had a HQ of less than 4. Only copper and nickel exceedances were observed within both leachate and groundwater, and of those nickel was only encountered within one of 15 samples. Elevated copper was encountered within all groundwater monitoring rounds, within two of three leachate samples, and within the majority of both upstream and downstream surface water samples. |
| **Off-Site Sources** | | |
| Former Dye Works/ Hosiery Factory | N/A | The factory adjacent to the southeastern site boundary was formerly a dye works up until circa 1950s when it was transitioned to a hosiery factory. Both processes likely involved the use of dyes and solvents. In 1993, free-phase tar and asbestos was removed from the boundary between the two sites. A bentonite slurry cut-off wall was recommended to prevent further on-site migration; however, it is unknown whether this was installed (Celtic, 1999). |
| Printing & Packaging Works | N/A | The factory was located to the west of the gasworks which used dyes and solvents in their processes. A tank with unknown contents is shown adjacent to the site boundary. The area has since been redeveloped into residential properties. Celtic (2005) note one Health & Safety incident on the former dye works involving a fire resulting in fallout of dust over the site. |
| * Positions shown in grey are where borehole logs have not been provided. | | |

# Appendix F: Updated Conceptual Site Model

| Source | Receptor | Pathway | Consequence | Probability | CIRIA Risk Rating | Justification |
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| General Made Ground in Area B (not including hotspots of free phase), including areas of former predominently above ground features (e.g. oxide shed, boiler house, diesel tanks, retort houses, exhauster/pump house, CWG plant, diesel generator and electricity substations) | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Likely | High risk | Concentrations of contaminants above the residential criteria have been recorded within Made Ground across Area B. Soft landscaping (private gardens and public open space) in proposed development plans will act to minimise the pathway to direct contact, including produce intake, however this is usually minimal cover as standard. |
| | | Vapour migration | Severe | Likely | High risk | Various exceedances of the residential vapour criteria were noted within soils and within dedicated shallow monitoring wells across area B; multiple exceedances were encountered within VW25-18 (located within the area of the former benzol washer). |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Diffusion through drinking water pipes | Medium | Likely | Moderate risk | Various contaminants have been identified within Made Ground soils across Area B. There is potential for diffusion of contaminants through drinking water pipes laid within Made Ground. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Various contaminants have been identified within Made Ground soils across Area B. Public open space generally comprises landscaped areas and attenuation ponds which will have less usage than private residential areas therefore the likelihood of direct contact will be lower. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Concentrations of contaminants above the residential criteria have been recorded within Made Ground across Area B. Residential properties are adjacent to the site along the southwest, east, northeast and north. Proposed development plans have soft landscaping which could increase the risk of contaminated soils being disturbed followed by subsequent migration, however these are likely to be vegetated. Migration of dust and direct contact is considered possible, albeit limited. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Vapour migration | Medium | Low likelihood | Moderate/low risk | Various exceedances of the residential vapour criteria were noted within dedicated shallow monitoring wells screening within the Made Ground across Area B. The neighbouring properties to the west are at a lower elevation meaning vapour arising from general Made Ground will likely vent to the admosphere. VW25-09 along the eastern boundary recorded elevated TPH within one of three monitoring rounds. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Various contaminants have been identified within Made Ground soils across Area B. Proposed development plans have increased soft landscaping which could increase the risk of contaminated soils being disturbed followed by subsequent migration, however these are likely to be vegetated. As most users of the commercial development will be transient, or predominently inside the building, the likelihood of contact with significant contamination is low. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Vapour migration | Medium | Unlikely | Low risk | Exceedances of the commercial AQAC were recorded for 1,2,4-trimethylbenzene (two monitoring rounds) and TPH aliphatic C8-C10 (1 monitoring round) at VW25-18, however this is not located within close proximity to the commercial properties. Additionally, the neighbouring Lidl to the east is at a lower elevation meaning vapour arising from general Made Ground will likely vent to the admosphere. |
| | Off-site Public Open Space (Park) Users | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Various contaminants have been identified within Made Ground soils across Area B. Proposed development plans have increased soft landscaping which could increase the risk of contaminated soils being disturbed followed by subsequent migration, however these are likely to be vegetated. Given the distance to the park from the areas with higher concentrations, and as most users of the park will be transient, direct contact is considered unlikely. |
| | Groundwater (Wolston Sand & Gravel) | Leaching & dissolution | Medium | Likely | Moderate risk | Various exceedances of water quality standards were recorded within leachate samples from Made Ground across Area B. Removal of hardstanding covering the site may increase the potential of leaching of the unsaturated made ground occurring and migrating down into the Secondary A Aquifer. |
| | Surface Water (Sketchley Brook & Battling Brook) | Leaching & dissolution followed by migration in groundwater | Medium | Low likelihood | Moderate/low risk | Various exceedances of water quality standards were recorded within leachate samples from Made Ground across Area B. Removal of hardstanding covering the site may increase the potential of leaching of the unsaturated made ground occurring and migrating down into the Secondary A Aquifer for subsequent migrating to surface water. Groundwater regime on- and off- site is complex therefore uncertainties remain. Groundwater flow is believed to be northwest to west in the north of Area B and west to southwest in the south of Area B. Given this, there is considered to be a large distance to both brooks. |
| | | Migration via service routes (site drainage/sewers) | Medium | Low likelihood | Moderate/low risk | Various exceedances of EQS were recorded within leachate samples from Made Ground across Area B. Subsurface structures such as drainage channels in the northern area and service channels in the southern areas, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Severe | Unlikely | Moderate/low risk | Various exceedances of DWS were recorded within leachate samples from Made Ground across Area B. The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |

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| Hotspots of free phase product within Made Ground west of Blocks 1, 2 and 3 (including vicinity of cast iron square tar tank) | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Likely | High risk | Hotspots of NAPL was encountered in the made ground deposits to the west of Blocks 1, 2, and 3 during previous investigations, some of which is likely from the tar well removed in 1993. MW25-18 was positioned to target the former tar tank; concentrations of contaminants within soil samples taken from MW25-18 were generally low or below the detection limit. In general, the 2025 investigation did not record significant free product within Made Ground deposits outside or former structures, with the exception of MW25-16A which recorded pockets of tar between 1.75 to 1.85 m bgl and elevated concentrations within groundwater (shallow installation installed within the Made Ground). This borehole is located along the western boundary. Soft landscaping (private gardens and public open space) in proposed development plans will act to minimise the pathway to direct contact, including produce intake, however this is usually minimal cover as standard. |
| | | Vapour migration | Severe | Likely | High risk | Hotspots of NAPL was encountered in the made ground deposits to the west of Blocks 1, 2, and 3 during previous investigations, some of which is likely from the tar well removed in 1993. MW25-18 was positioned to target the former tar tank; concentrations of contaminants within soil samples taken from MW25-18 were generally low or below the detection limit. In general, the 2025 investigation did not record significant free product within Made Ground deposits outside or former structures, with the exception of MW25-16A which recorded pockets of tar between 1.75 to 1.85 m bgl and concentrations of volatiles above the residential criteria within groundwater (shallow installation installed within the Made Ground). This borehole is located along the western boundary. There are proposed residential properties in areas where free-phase NAPL has been encountered which could arise to vapours. |
| | | Diffusion through drinking water pipes | Severe | Likely | High risk | Hotspots of NAPL was encountered in the made ground deposits to the west of Blocks 1, 2, and 3 during previous investigations, some of which is likely from the tar well removed in 1993. MW25-18 was positioned to target the former tar tank; concentrations of contaminants within soil samples taken from MW25-18 were generally low or below the detection limit. In general, the 2025 investigation did not record significant free product within Made Ground deposits outside or former structures, with the exception of MW25-16A which recorded pockets of tar between 1.75 to 1.85 m bgl and elevated concentrations within groundwater (shallow installation installed within the Made Ground). This borehole is located along the western boundary. Water supply pipes can be affected by the presence of hydrocarbons. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Hotspots of NAPL was encountered in the made ground deposits to the west of Blocks 1, 2, and 3 during previous investigations, some of which is likely from the tar well removed in 1993. MW25-18 was positioned to target the former tar tank; concentrations of contaminants within soil samples taken from MW25-18 were generally low or below the detection limit. In general, the 2025 investigation did not record significant free product within Made Ground deposits outside or former structures, with the exception of MW25-16A which recorded pockets of tar between 1.75 to 1.85 m bgl and elevated concentrations within groundwater (shallow installation installed within the Made Ground). This borehole is located along the western boundary. Areas of public open space are proposed within the hotspot areas, however they generally comprises landscaped areas and attenuation ponds which will have less usage than private residential areas, therefore the likelihood of direct contact will be lower. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | The proposed development comprises the soft standing within the area of identified free-phase. Residential properties border the area where free-phase was detected. Migration of dust and direct contact is considered possible, albeit limited. |
| | | Vapour migration | Medium | Low likelihood | Moderate/low risk | Potential risks are currently mitigated by the containment system and the presence of vapour barriers in off-site properties. However, as part of the strategy and detailed design, these possible risks should be reassessed |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Commercial property not in close proximity to identified free phase. |
| | | Vapour migration | Medium | Unlikely | Low risk | Commercial property not in close proximity to identified free phase. |
| | Off-site Public Open Space (Park) Users | Migration via groundwater followed by vapour migration | Medium | Unlikely | Low risk | The open-air environment will prevent vapour build up. |
| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Medium | High likelihood | High risk | Hydrocarbons have been identified within groundwater, likely arising from identified hotstpots within the Made Ground incombination with other former sources. |
| | Surface Water (Sketchley Brook & Battling Brook) | Leaching & dissolution followed by migration in groundwater | Medium | Low likelihood | Moderate/low risk | Hydrocarbons have been identified within groundwater, likely arising from identified hotstpots within the Made Ground incombination with other former sources. Groundwater regime on- and off- site is complex therefore uncertainties remain. Groundwater flow is believed to be west in the vicinity of the Made Ground hotspots. Given this, there is considered to be a large distance to both brooks. |
| | | Migration via service routes (site drainage/sewers) | Medium | Low likelihood | Moderate/low risk | Hotspots of NAPL was encountered in the made ground deposits to the west of Blocks 1, 2, and 3. Subsurface structures such as drainage channels in the northern area and service channels in the southern areas, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Severe | Unlikely | Moderate/low risk | Hydrocarbons have been identified within groundwater, likely arising from identified hotstpots within the Made Ground incombination with other former sources. The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |

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| Asbestos in soils | Future site users – residential | Dust/fibre inhalation | Medium | High likelihood | High risk | Quantifiable amounts of asbestos was identified in shallow soils in Area A (previous investigation) and B (2025 investigation). Proposed development plans have soft landscaping which could increase the risk of potential asbestos fibres being disturbed. The risk cannot be dismissed due to the absence of site-wide contemporary data. |
| | Future site users – public open space | Dust/fibre inhalation | Medium | Likely | Moderate risk | Quantifiable amounts of asbestos was identified in shallow soils in Area A (previous investigation) and B (2025 investigation). Proposed development plans have soft landscaping which could increase the risk of potential asbestos fibres being disturbed followed by subsequent migration. The risk cannot be dismissed due to the absence of site-wide contemporary data. Public open space generally comprises landscaped areas and attenuation ponds which will have less usage than private residential areas therefore the likelihood of direct contact will be lower. |
| | Off-site Residential Properties | Dust/fibre inhalation | Medium | Low likelihood | Moderate/low risk | Quantifiable amounts of asbestos was identified in shallow soils in Area A (previous investigation) and B (2025 investigation). Proposed development plans have soft landscaping which could increase the risk of potential asbestos fibres being disturbed. It is considered of low likelihood that a significant amount of fibres would migrate offsite, however the removal of hardstanding across the site will increase the risk of migration. |
| | Off-site commercial workers | Dust/fibre inhalation | Medium | Low likelihood | Moderate/low risk | Quantifiable amounts of asbestos was identified in shallow soils in Area A (previous investigation) and B (2025 investigation). Proposed development plans have soft landscaping which could increase the risk of potential asbestos fibres being disturbed. It is considered of low likelihood that a significant amount of fibres would migrate offsite, however the removal of hardstanding across the site will increase the risk of migration. |
| | Off-site Public Open Space (Park) Users | Dust/fibre inhalation | Medium | Low likelihood | Moderate/low risk | Quantifiable amounts of asbestos was identified in shallow soils in Area A (previous investigation) and B (2025 investigation). Proposed development plans have soft landscaping which could increase the risk of potential asbestos fibres being disturbed. It is considered of low likelihood that a significant amount of fibres would migrate offsite, however the removal of hardstanding across the site will increase the risk of migration. |
| Former refuse tip, and infilled gravel pit | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Likely | High risk | Made Ground was encountered to between 1.2 and 3.45 m bgl with instances of anthropogenic material including charcoal, coke, clinker, ash and wood were noted within some locations. Hydrocarbon odours and staining was noted within the Made Ground. Some exceedances of the residential human health criteria were noted within soils for PAHs, arsenic, lead and cyanide. |
| | | Vapour migration | Severe | Unlikely | Moderate/low risk | Exceedances of the residential criteria were noted for volatile contaminants within soils, however these are considered to be conservative. No exceedances of the residential criteria were recorded within dedicated vapour samples taken from shallow monitoring wells, or within groundwater vapour. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Diffusion through drinking water pipes | Medium | Low likelihood | Moderate/low risk | Hydrocarbon odours and staining and exceedances of volatile contaminants within Made Ground soil samples were noted within the Made Ground which may diffuse through drinking water pipes. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Made Ground was encountered to between 1.2 and 3.45 m bgl with instances of anthropogenic material including charcoal, coke, clinker, ash and wood were noted within some locations. Hydrocarbon odours and staining was noted within the Made Ground. Some exceedances of the residential human health criteria were noted within soils for PAHs, arsenic, lead and cyanide. Public open space generally comprises landscaped areas and attenuation ponds which will have less usage than private residential areas therefore the likelihood of direct contact will be lower. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Made Ground was encountered to between 1.2 and 3.45 m bgl with instances of anthropogenic material including charcoal, coke, clinker, ash and wood were noted within some locations. Hydrocarbon odours and staining was noted within the Made Ground. Some exceedances of the residential human health criteria were noted within soils for PAHs, arsenic, lead and cyanide. Proposed development plans have soft landscaping which could increase the risk of contaminated soils being disturbed followed by subsequent migration, however these are likely to be vegetated. Migration of dust and direct contact is considered possible, albeit limited. |
| | | Vapour migration | Severe | Unlikely | Moderate/low risk | Exceedances of the residential criteria were noted for volatile contaminants within soils, however these are considered to be conservative. No exceedances of the residential criteria were recorded within dedicated vapour samples taken from shallow monitoring wells, or within groundwater vapour. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Commercial property not in close proximity to refuse tip. |
| | | Vapour migration | Medium | Unlikely | Low risk | No exceedances of the commercial criteria were recorded within dedicated vapour samples taken from shallow monitoring wells. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |

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| | Off-site Public Open Space (Park) Users | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Made Ground was encountered to between 1.2 and 3.45 m bgl with instances of anthropogenic material including charcoal, coke, clinker, ash and wood were noted within some locations. Hydrocarbon odours and staining was noted within the Made Ground. Some exceedances of the residential human health criteria were noted within soils for PAHs, arsenic, lead and cyanide. Given the distance to the park, and as most users of the park will be transient, direct contact is considered unlikely. |
| | Groundwater (Wolston Sand & Gravel) | Leaching & dissolution | Medium | Likely | Moderate risk | Made Ground was encountered to between 1.2 and 3.45 m bgl with instances of anthropogenic material including charcoal, coke, clinker, ash and wood were noted within some locations. Hydrocarbon odours and staining was noted within the Made Ground. Some exceedances of the residential human health criteria were noted within soils for PAHs, arsenic, lead and cyanide. Exceedances of water quality standards were recorded within leachate samples for cyanide, ammonium, PAHs, metals and TPH aromatic C12-35; exceedances of cyanide, sulphur, chloride, ammonia, copper and nickel were encountered relatively consistently within groundwater, with sporadic or low exceedances of phenol, PAHs, iron, cadmium and zinc. |
| | Surface Water (Sketchley Brook & Battling Brook) | Leaching & dissolution followed by migration in groundwater | Medium | Low likelihood | Moderate/low risk | Exceedances of EQS were recorded within leachate and groundwater samples. Removal of hardstanding covering the site may increase the potential of leaching of the unsaturated made ground occurring and migrating down into the Secondary A Aquifer for subsequent migrating to surface water. Groundwater regime on- and off- site is complex therefore uncertainties |
| | | Migration via service routes (site drainage/sewers) | Medium | Low likelihood | Moderate/low risk | Exceedances of EQS were recorded within leachate and groundwater samples. Subsurface structures such as drainage and service channels, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Severe | Unlikely | Moderate/low risk | Various exceedances of DWS were recorded within leachate samples from Made Ground of the former refuse tip. The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |
| Infilled Gasholder A sub-surface feature | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Likely | High risk | Conflicting evidence on whether Gasholder A has been remediated has been provided. Based on historical mapping and the positioning of the exposed wall of Gasholder B, MW25-23B should have progressed through Gasholder A, however encountered geology within this location reflects both natural sands and the description of 'clean' sand fill used in remediation. This material, and underlying silts were impacted with strong hydrocarbon odours, sheens and pockets of NAPL beween 4.1 and 9.9 m bgl. Laboratory analysis of MW25-23B encountered PAHs above the residential criteria within shallow soils. |
| | | Vapour migration | Severe | Likely | High risk | Conflicting evidence on whether Gasholder A has been remediated has been provided. Based on historical mapping and the positioning of the exposed wall of Gasholder B, MW25-23B should have progressed through Gasholder A, however encountered geology within this location reflects both natural sands and the description of 'clean' sand fill used in remediation. This material, and underlying silts were impacted with strong hydrocarbon odours, sheens and pockets of NAPL beween 4.1 and 9.9 m bgl. Laboratory analysis of MW25-23B encountered benzene and VOCs within soils above the residential criteria / detection limit and PAHs and TPH above the residential vapour criteria within groundwater. |
| | | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Diffusion through drinking water pipes | Medium | Low likelihood | Moderate/low risk | Hydrocarbons were recorded below 4 m bgl, which is not likely to come into contact with supply pipes. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Unlikely | Low risk | Gasholder A is situated within private garden areas. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Concentrations of contaminants above the residential criteria have been recorded within Made Ground within Gasholder A. Residential properties are adjacent to the gasholder in the west. Proposed development plans have soft landscaping which could increase the risk of contaminated soils being disturbed followed by subsequent migration, however these are likely to be vegetated. Migration of dust and direct contact is considered possible, albeit limited. |
| | | Vapour migration | Severe | Unlikely | Moderate/low risk | Potential risks are currently mitigated by the containment system and the presence of vapour barriers in off-site properties. However, as part of the strategy and detailed design, these possible risks should be reassessed. |
| | | Gas migration | Severe | Unlikely | Moderate/low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Commercial property not in close proximity to gasholder A. |
| | | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Vapour migration | Medium | Unlikely | Low risk | One marginal exceedance of the commercial GACgwvap for benzene (concentration of 22mg.L-1 compared to the commercial GACgwvap of 20mg.L-1) has been identified within the first of three monitoring rounds at MW25-23B. Groundwater in the southern area is assumed to flow to the west, away from the commerical properties. |

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| | Off-site Public Open Space (Park) Users | Migration in groundwater/NAPL followed by vapour migration | Medium | Low likelihood | Moderate/low risk | As NAPL has been identified within deeper soils and is evident within groundwater (DNAPL recorded during monitoring visits and PAHs and TPH above the residential vapour criteria within groundwater), there is a risk from vapours migrating off-site within groundwater. Groundwater in the southern area is assumed to flow to the west, with some potential to flow to the southwest. However, the generaly open-aired environment will not allow for significant build up of vapours. |
| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Severe | Likely | High risk | Conflicting evidence on whether Gasholder A has been remediated has been provided. Based on historical mapping and the positioning of the exposed wall of Gasholder B, MW25-23B should have progressed through Gasholder A, however encountered geology within this location reflects both natural sands and the description of 'clean' sand fill used in remediation. This material, and underlying silts were impacted with strong hydrocarbon odours, sheens and pockets of NAPL beween 4.1 and 9.9 m bgl. It is possible that the gasholder walls were partially destroyed during the construction of Block 1, and that foundations (potentially piled) progressed through the gasholder. Laboratory analysis of MW25-23B encountered high pH, cyanide, ammonium, PAHs, metals and TPH above water quality standards within leachate; cyanide, ammonium, creosols, phenol, PAHs, BTEX and TPH consistently within groundwater. Groundwater monitoring within MW25-23B encountered DNAPL between 0.27 and 0.61 m in thickness; laboratory analysis showed this to be indicative of coal tar. It is clear that free phase contamination remains within the vicinity of Gasholder A. |
| | Surface Water (Sketchley Brook & Battling Brook) | Leaching & dissolution followed by migration in groundwater | Medium | Likely | Moderate risk | Hydrocarbons including NAPL alongside dissolved phase contaminants have been identified within groundwater. Groundwater regime on- and off- site is complex therefore uncertainties remain. Groundwater flow is believed to be west however there is considered to be a large distance to both brooks. |
| | | Migration via service routes (site drainage/sewers) | Medium | Likely | Moderate risk | Hydrocarbons including NAPL alongside dissolved phase contaminants have been identified within groundwater. Subsurface structures such as drainage channels in the northern area and service channels in the southern areas, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Severe | Low likelihood | Moderate risk | Hydrocarbons including NAPL alongside dissolved phase contaminants have been identified within groundwater. The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |
| Infilled Gasholder B sub-surface feature | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Likely | High risk | Previous reports suggest that gasholder B was emptied, cleaned and backfilled with 'clean' material with the bricks at the well base removed, as well as the underlying clay to depth. The curvature of the wall of Gasholder B was exposed within TP25-25 and MW25-25 was positioned within the suspected footprint of Gasholder B based on historical maps, previous reports and the exposed gasholder wall in TP25-25. MW25-25 encountered Made Ground comprising hydrocarbon impacted sand to 4 m bgl (black plastic mesh recorded at 3.9 m bgl, black staining and moderate odours between 1.9 and 4 m bgl). Interlayered bands of sand and clay were noted below which were heavily impacted with odours, staining, sheens and pockets of product. Laboratory analysis showed exceedances of the residential criteria within shallow soils for PAHs. |
| | | Vapour migration | Severe | Low likelihood | Moderate risk | MW25-25 encountered Made Ground comprising hydrocarbon impacted sand to 4 m bgl (black plastic mesh recorded at 3.9 m bgl, black staining and moderate odours between 1.9 and 4 m bgl). Interlayered bands of sand and clay were noted below which were heavily impacted with odours, staining, sheens and pockets of product. Laboratory analysis showed exceedances of the residential criteria of naphthalene, benzene and VOCs within deeper soils (vapour risk), and naphthalene and benzene within groundwater vapour (however these weren't consistent). |
| | | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Diffusion through drinking water pipes | Medium | Likely | Moderate risk | Black staining and odours were recorded from 1.9 m bgl. Water supply pipes can be affected by the presence of hydrocarbons. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Unlikely | Low risk | Gasholder B is situated within private garden areas. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Concentrations of contaminants above the residential criteria have been recorded within Made Ground within Gasholder B. Residential properties are adjacent to the gasholder in the west. Proposed development plans have soft landscaping which could increase the risk of contaminated soils being disturbed followed by subsequent migration, however these are likely to be vegetated. Migration of dust and direct contact is considered possible, albeit limited. |
| | | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Vapour migration | Severe | Unlikely | Moderate/low risk | Potential risks are currently mitigated by the containment system and the presence of vapour barriers in off-site properties. However, as part of the strategy and detailed design, these possible risks should be reassessed |
| | | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Commercial property not in close proximity to gasholders. |

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| | Off-site commercial workers | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Vapour migration | Medium | Low likelihood | Moderate/low risk | Commercial property not in close proximity to gasholders. Groundwater in the southern area is assumed to flow to the west, away from the commerical properties. |
| | Off-site Public Open Space (Park) Users | Vapour migration | Medium | Low likelihood | Moderate/low risk | As hydrocarbons have been identified within deeper soils and is evident within groundwater, there is a risk from vapours migrating off-site within groundwater. Groundwater in the southern area is assumed to flow to the west, with some potential to flow to the southwest. However, the generaly open-aired environment will not allow for significant build up of vapours. |
| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Severe | Likely | High risk | MW25-25 encountered Made Ground comprising hydrocarbon impacted sand to 4 m bgl (black plastic mesh recorded at 3.9 m bgl, black staining and moderate odours between 1.9 and 4 m bgl). Interlayered bands of sand and clay were noted below which were heavily impacted with odours, staining, sheens and pockets of product. Laboratory analysis showed exceedances of the EQS within both leachate and groundwater. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Likely | Moderate risk | Hydrocarbons and dissolved phase contaminants have been identified within groundwater. Subsurface structures such as drainage and service channels, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | | Leaching & dissolution followed by migration in groundwater | Medium | Likely | Moderate risk | Hydrocarbons and dissolved phase contaminants have been identified within groundwater. Groundwater regime on- and off-site is complex therefore uncertainties remain. Groundwater flow is believed to be west however there is considered to be a large distance to both brooks. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Severe | Low likelihood | Moderate risk | Hydrocarbons alongside dissolved phase contaminants have been identified within groundwater. The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |
| Infilled Gasholder 1 - sub-surface structures, including perched waters | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Likely | High risk | The proposed development comprises the construction of residential properties with private gardens within the footprint of GH1. Gasholder 1 was recorded as being remediated in 1993, however there is no information on the infill used. The 2025 ground investigation encountered Made Ground to 5 and 6 m bgl, displaying black staining with a moderate-strong hydrocarbon odour and sheens from 2.5 m bgl. MW25-33 was terminated at 6 m bgl due to an obstruction; potentially the gasholder base. Laboratory analysis showed exceedances of the residential criteria within shallow soils for PAHs. |
| | | Vapour migration | Severe | Low likelihood | Moderate risk | The 2025 ground investigation encountered Made Ground to 5 and 6 m bgl, displaying black staining with a moderate-strong hydrocarbon odour and sheens from 2.5 m bgl. Laboratory analysis showed exceedances of the residential criteria for cyanide, naphthalene, benzene and VOCs within deeper soils. Exceedances of TPH and 1,2,4-Trimethylbenzene were noted for groundwater vapour however these weren't consistent. |
| | | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Diffusion through drinking water pipes | Medium | Unlikely | Low risk | Hydrocarbons were recorded below 2.5 m bgl, which is not likely to come into contact with supply pipes. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Unlikely | Low risk | Gasholder 1 is situated within private garden areas. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | There are no residential properties within the immediate vicinity of Gasholder 1. |
| | | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Vapour migration | Medium | Low likelihood | Moderate/low risk | There are no residential properties within the immediate vicinity of Gasholder 1. No odours were noted within the underlying clay or the top of the subsequent sands suggesting contamination may contained within the gasholder structure. Groundwater levels suggest that the gasholder is retaining water. It should be noted that there is the potential for foundations to have penetrated through the base of the structure. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Commercial property is not located within close proximity to gasholder 1 suggesting direct contact is not likely. |
| | | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Vapour migration | Medium | Unlikely | Low risk | Commercial property is not located within close proximity to gasholder 1. Groundwater in the southern area is assumed to flow to the west, away from the commerical properties. |
| | Off-site Public Open Space (Park) Users | Vapour migration | Medium | Unlikely | Low risk | Groundwater in the southern area is assumed to flow to the west, with some potential to flow to the southwest. However, the generaly open-aired environment will not allow for significant build up of vapours. |

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| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Severe | Likely | High risk | The 2025 ground investigation encountered Made Ground to 5 and 6 m bgl, displaying black staining with a moderate-strong hydrocarbon odour and sheens from 2.5 m bgl. No odours were noted within the underlying clay and subsequent top of the sands suggesting contamination may contained within the gasholder structure. Groundwater levels suggest that the gasholder is retaining water. Additionally boulder clay is present below the gasholder. It should be noted however that there is the potential for foundations to have penetrated through the base of the structure as hydrocarbons were identified down hydraulic gradient of the gasholders. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Likely | Moderate risk | The 2025 ground investigation encountered Made Ground to 5 and 6 m bgl, displaying black staining with a moderate-strong hydrocarbon odour and sheens from 2.5 m bgl. No odours were noted within the underlying clay and subsequent top of the sands suggesting contamination may contained within the gasholder structure. Groundwater levels suggest that the gasholder is retaining water. It should be noted however that there is the potential for foundations to have penetrated through the base of the structure as hydrocarbons were identified down hydraulic gradient of the gasholders. Subsurface structures such as drainage and service channels, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | | Leaching & dissolution followed by migration in groundwater | Medium | Likely | Moderate risk | The 2025 ground investigation encountered Made Ground to 5 and 6 m bgl, displaying black staining with a moderate-strong hydrocarbon odour and sheens from 2.5 m bgl. No odours were noted within the underlying clay and subsequent top of the sands suggesting contamination may contained within the gasholder structure. Groundwater levels suggest that the gasholder is retaining water. It should be noted however that there is the potential for foundations to have penetrated through the base of the structure as hydrocarbons were identified down hydraulic gradient of the gasholders. Groundwater regime on- and off- site is complex therefore uncertainties remain. Groundwater flow is believed to be west however there is considered to be a large distance to both brooks. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Severe | Low likelihood | Moderate risk | The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |
| Infilled Gasholder 2 - sub-surface structures, including perched waters | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Low likelihood | Moderate risk | The proposed development comprises the construction of residential properties with private gardens within the footprint of Gasholder 2. The 2025 ground investigation encountered Made Ground to 5.3 - 6.3 m bgl, displaying black staining with a moderate to strong hydrocarbon odour and sheens from 1.85 m bgl. No solid base was encountered within either borehole; stiff clay was encountered below the Made Ground which appeared to be unimpacted with hydrocarbons. Laboratory analysis showed no exceedances of the residential criteria within shallow soils. |
| | | Vapour migration | Severe | Low likelihood | Moderate risk | The 2025 ground investigation encountered Made Ground to 5.3 - 6.3 m bgl, displaying black staining with a moderate to strong hydrocarbon odour and sheens from 1.85 m bgl. Laboratory analysis showed concentrations of naphthalene, benzene and 1,2,4-Trimethylbenzene above residential guideline values for volatile contaminants within deeper soils and groundwater. p-Isopropyltoluene was recorded above the detection limit within deeper soils, however no guideline criteria exists for residential vapour. No exceedances of the AQAC were noted within vapour samples from VW25-14 (except vinyl chloride where the detection limit is higher than the AQAC), however various VOCs and TIC VOCs were recorded above the detection limit. |
| | | Gas migration | Medium | Unlikely | Low risk | Groundgas monitoring within VW25-14 did not show significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Diffusion through drinking water pipes | Medium | Unlikely | Low risk | Hydrocarbons were recorded below 1.85 m bgl, which is not likely to come into contact with supply pipes. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Unlikely | Low risk | Gasholder 2 is situated within private garden areas. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | There are no residential properties within the immediate vicinity of Gasholder 2. |
| | | Gas migration | Medium | Unlikely | Low risk | Groundgas monitoring within VW25-14 did not show significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Vapour migration | Medium | Low likelihood | Moderate/low risk | There are no residential properties within the immediate vicinity of Gasholder 2. No odours were noted within the underlying clay suggesting contamination may contained within the gasholder structure. It should be noted that there is the potential for foundations to have penetrated through the base of the structure. Groundwater levels suggest that the gasholder is retaining water. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Commercial property is not located within close proximity to gasholder 2 suggesting direct contact is not likely. |
| | | Gas migration | Medium | Unlikely | Low risk | Groundgas monitoring within VW25-14 did not show significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Vapour migration | Medium | Unlikely | Low risk | Commercial property is not located within close proximity to gasholder 2. Groundwater in the southern area is assumed to flow to the west, away from the commerical properties. |

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| | Off-site Public Open Space (Park) Users | Vapour migration | Medium | Unlikely | Low risk | Groundwater in the southern area is assumed to flow to the west, with some potential to flow to the southwest. However, the generaly open-aired environment will not allow for significant build up of vapours. |
| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Severe | Likely | High risk | The 2025 ground investigation encountered Made Ground to 5.3 - 6.3 m bgl, displaying black staining with a moderate to strong hydrocarbon odour and sheens from 1.85 m bgl. No solid base was encountered within either borehole; stiff clay was encountered below the Made Ground which appeared to be unimpacted with hydrocarbons. Groundwater levels suggest that the gasholder is retaining water. Additionally boulder clay is present below the gasholder. It should be noted however that there is the potential for foundations to have penetrated through the base of the structure as hydrocarbons were identified down hydraulic gradient of the gasholders. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Likely | Moderate risk | The 2025 ground investigation encountered Made Ground to 5.3 - 6.3 m bgl, displaying black staining with a moderate to strong hydrocarbon odour and sheens from 1.85 m bgl. No solid base was encountered; stiff clay was encountered below the Made Ground which appeared to be unimpacted with hydrocarbons.roundwater levels suggest that the gasholder is retaining water. It should be noted however that there is the potential for foundations to have penetrated through the base of the structure as hydrocarbons were identified down hydraulic gradient of the gasholders. Subsurface structures such as drainage and service channels, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | | Leaching & dissolution followed by migration in groundwater | Medium | Likely | Moderate risk | The 2025 ground investigation encountered Made Ground to 5.3 - 6.3 m bgl, displaying black staining with a moderate to strong hydrocarbon odour and sheens from 1.85 m bgl. No solid base was encountered; stiff clay was encountered below the Made Ground which appeared to be unimpacted with hydrocarbons.roundwater levels suggest that the gasholder is retaining water. It should be noted however that there is the potential for foundations to have penetrated through the base of the structure as hydrocarbons were identified down hydraulic gradient of the gasholders. Groundwater regime on- and off-site is complex therefore uncertainties remain. Groundwater flow is believed to be west however there is considered to be a large distance to both brooks. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Severe | Low likelihood | Moderate risk | The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |
| Infilled Gasholder 3 - sub-surface structure, including perched waters | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Likely | High risk | The proposed development comprises the construction of residential properties with private gardens which partially extend over the footprint of GH3. It is unknown whether the tank was removed or left in-situ during the construction of the car park. A borehole completed within the footprint of the structure (SHT4) in 1993 refused at 4.0 m on the potential base (Celtic, 2005) and an oily odour was observed within the made ground. The 2025 ground investigation encountered Made Ground to 4.2 onto a concrete slab to 4.6 m bgl with natural sand below. Faint odours were noted within the Made Ground. Water within the gasholder had a strong sulphuric/hydrocarbon odour and degraded organic matter used in the fill produced a dark green, pungent slime/mulch below 3 m bgl. Laboratory analysis showed exceedances of the residential criteria within shallow soils for PAHs only. |
| | | Vapour migration | Severe | Unlikely | Moderate/low risk | Faint odours were noted within the Made Ground and water within the gasholder had a strong sulphuric/hydrocarbon odour and degraded organic matter used in the fill produced a dark green, pungent slime/mulch below 3 m bgl. Laboratory analysis showed that volatile contaminants were below the residential criteria within deeper soils. Mercury marginally exceeded the residential criteria for water vapour. No exceedances of the AQAC were noted within vapour samples from VW25-11A (except vinyl chloride where the detection limit is higher than the AQAC), however various VOCs and TIC VOCs were recorded above the detection limit. |
| | | Gas migration | Medium | Unlikely | Low risk | Groundgas monitoring within VW25-11A did not show significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Diffusion through drinking water pipes | Medium | Low likelihood | Moderate/low risk | Whilst TPH was noted within soils, no significant hydrocarbon staining or odours were recorded within the Made Ground. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Unlikely | Low risk | The majority of gasholder no. 3 is located within the vicinity of driveways. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Residential properties are located to the north of GH3 with gardens located within 20 m of the sub-surface tank. Laboratory analysis showed exceedances of the residential criteria within shallow soils for PAHs only. Migration of dust and direct contact is considered possible, but of low likelihood. |
| | | Gas migration | Medium | Unlikely | Low risk | Groundgas monitoring within VW25-11A did not show significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |
| | | Vapour migration | Medium | Unlikely | Low risk | Laboratory analysis showed that volatile contaminants were below the residential criteria within deeper soils. Mercury marginally exceeded the residential criteria for water vapour. No exceedances of the AQAC were noted within vapour samples from VW25-11A (except vinyl chloride where the detection limit is higher than the AQAC), however various VOCs and TIC VOCs were recorded above the detection limit. The nearest residential properties are not within groundwater flow direction. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Commercial property is not directly near to Gasholder 3. |
| | | Gas migration | Medium | Unlikely | Low risk | Groundgas monitoring within VW25-11A did not show significantly elevated ground gas concentrations . No highly putrescible and organic material was noted within logs. |

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| | | Vapour migration | Medium | Unlikely | Low risk | No exceedances of the commercial criteria were recorded within dedicated vapour samples taken from shallow monitoring wells. Groundwater in the southern area is assumed to flow to the west, away from the commerical properties. |
| | Off-site Public Open Space (Park) Users | Vapour migration | Medium | Unlikely | Low risk | Parks not in close proximity to gasholder 3. |
| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Severe | Low likelihood | Moderate risk | A borehole completed within the footprint of the structure (SHT4) in 1993 refused at 4.0 m on the potential base (Celtic, 2005) and an oily odour was observed within the made ground. The 2025 ground investigation encountered Made Ground to 4.2 onto a concrete slab to 4.6 m bgl with natural sand below. Faint odours were noted within the Made Ground. Although no gasholder walls were encountered, a distinct change in strata was noted within TP25-10 suggesting that the gasholder walls may have been partially removed. Water within the gasholder had a strong sulphuric/hydrocarbon odour and degraded organic matter used in the fill produced a dark green, pungent slime/mulch below 3 m bgl. Groundwater monitoring suggests that gasholder tank is retaining water. Laboratory analysis showed high pH, cyanide, ammonium, trimethylphenol, PAHs, copper, benzene and TPH were above water quality standards within leachate, and high pH, conductivity, cyanide, sulphate, chloride, ammonium, phenols, PAHs, metals and TPH were recorded consistently within water samples taken from inside the gasholder. The presence of a base will restrict leaching into the underlying aquifer however gasholder walls were not encountered. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Low likelihood | Moderate/low risk | Exceedances of the EQS were recorded within leachate and water samples taken from inside the gasholder. The presence of a base will restrict leaching into the underlying aquifer however gasholder walls were not encountered. Subsurface structures such as drainage and service channels, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | | Leaching/dissolution | Medium | Low likelihood | Moderate/low risk | Exceedances of the EQS were recorded within leachate and water samples taken from inside the gasholder. The presence of a base will restrict leaching into the underlying aquifer however gasholder walls were not encountered. Groundwater regime on- and off- site is complex therefore uncertainties remain. Groundwater flow is believed to be west however there is considered to be a large distance to both brooks. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Medium | Low likelihood | Moderate/low risk | The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |
| Made Ground within Area C (including Gasholder 4 - above ground structure) | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Likely | Moderate risk | The proposed development comprises the construction of residential properties with private gardens which extend across Area C. Celtic (2005) suggest the gasholder was dismantled in approximately 1977-1978 by the Gas Board and the sunken ground infilled and covered in 1993 to provide additional car parking places. The concrete base (ring beam) is reported as left in-situ (WorleyParsons, 2013). The 2025 ground investigation encountered Made Ground to 1.2 m bgl, with a concrete slab between 0.6 and 1.5 m bgl, overlying Oadby Till and subsequently Wolston Sand and Gravels. No odours or staining was recorded within any intrusive location. Lead was identified within shallow soils above the residential criteria. |
| | | Vapour migration | Severe | Unlikely | Moderate/low risk | No odours or staining was recorded within any intrusive location. No exceedances of the residential guideline values for soil or groundwater vapour were observed within Area C, however various VOCs and TIC VOCs were recorded within vapour samples above the detection limit. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Diffusion through drinking water pipes | Medium | Low likelihood | Moderate/low risk | TPH was generally low withhin soils and no significant hydrocarbon staining or odours were recorded within the Made Ground. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Unlikely | Low risk | Public open space generally comprises landscaped areas and attenuation ponds which will have less usage than private residential areas therefore the likelihood of direct contact will be lower. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | No odours or staining was recorded within any intrusive location. Lead was identified within shallow soils above the residential criteria. Migration of dust and direct contact is considered possible, but of low likelihood. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Vapour migration | Medium | Unlikely | Low risk | No odours or staining was recorded within any intrusive location. No exceedances of the residential guideline values for soil or groundwater vapour were observed within Area C, however various VOCs and TIC VOCs were recorded within vapour samples above the detection limit. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Exceedances of lead for residential criteria are unlikely to cause concern for commercial workers. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Vapour migration | Medium | Unlikely | Low risk | No odours or staining was recorded within any intrusive location. No exceedances of the commercial criteria were recorded within dedicated vapour samples taken from shallow monitoring wells. |

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| | Off-site Public Open Space (Park) Users | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Parks not in close proximity to gasholder 4. |
| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Medium | Unlikely | Low risk | The 2025 ground investigation encountered Made Ground to 1.2 m bgl, with a concrete slab between 0.6 and 1.5 m bgl, overlying Oadby Till and subsequently Wolston Sand and Gravels. No odours or staining was recorded within any intrusive location. The presence of impermable Oadby Till and a concrete slab acorss the majority of the area will sever the pathway to the underlying aquifer. A leachate sample showed elevated ammoniacal nitrogen, copper, iron and lead however groundwater concentrations were generally low or below detection with the exception of copper and nickel. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Unlikely | Low risk | A leachate sample showed elevated ammoniacal nitrogen, copper, iron and lead however groundwater concentrations were generally low or below detection with the exception of copper and nickel. The presence of impermable Oadby Till and a concrete slab acorss the majority of the area will sever the pathway to the underlying aquifer. |
| | | Leaching/dissolution | Medium | Unlikely | Low risk | A leachate sample showed elevated ammoniacal nitrogen, copper, iron and lead however groundwater concentrations were generally low or below detection with the exception of copper and nickel. The presence of impermable Oadby Till and a concrete slab acorss the majority of the area will sever the pathway to the underlying aquifer. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Medium | Unlikely | Low risk | A leachate sample showed elevated ammoniacal nitrogen, copper, iron and lead however groundwater concentrations were generally low or below detection with the exception of copper and nickel. The presence of impermable Oadby Till and a concrete slab acorss the majority of the area will sever the pathway to the underlying aquifer. |
| Purifiers in Area B | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Likely | High risk | Various purifiers have been identified across Area B: primary purifiers located to the southwest of Block 5, a potential purifier located on the southwest boundary and purifier catch boxes located beneath Block 2. Corbelled brickwork was encountered leading to a concrete base slab circa 0.4 to 0.5 m thick, at around 2 to 2.2 m bgl withihn the purifier catch boxes, and a strong sulphuric, tar and sweet odour was noted within the base of the structure. No odours or staining were observed within Made Ground or natural soils within the area of the primary purifers. Free cyanide, PAHs and metals were detected within shallow soils above residential criteria. |
| | | Vapour migration | Medium | Low likelihood | Moderate/low risk | Cyanide, naphthalene and VOCs were detected above residential criteria within deeper soils, however no groundwater vapours were encountered or exceedances of the AQAC. |
| | | Gas migration | Severe | Unlikely | Moderate/low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Diffusion through drinking water pipes | Medium | Low likelihood | Moderate/low risk | TPH was generally low withhin soils. Odours were noted below 2 m bgl therefore pipework is unlikely to come into contact with contamination. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Likely | Moderate risk | Public open space generally comprises landscaped areas and attenuation ponds which will have less usage than private residential areas therefore the likelihood of direct contact will be lower. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Free cyanide, PAHs and metals were detected within shallow soils above residential criteria. The purifiers are generally in the centre of the site, with the exception of the southwestern boundary. |
| | | Gas migration | Mild | Unlikely | Very low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Vapour migration | Medium | Low likelihood | Moderate/low risk | Cyanide, naphthalene and VOCs were detected above residential criteria within deeper soils, however no groundwater vapours were encountered or exceedances of the AQAC. The purifiers are generally in the centre of the site, with the exception of the southwestern boundary. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Purifiers are not located within close proximity to commercial properties |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Vapour migration | Medium | Unlikely | Low risk | Purifiers are not located within close proximity to commercial properties and are down-hydraulic gradient. |
| | Off-site Public Open Space (Park) Users | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Parks not in close proximity to purifiers. |

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| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Severe | Likely | High risk | Within the primary purifiers, groundwater samples from within the Wolston Sand and Gravels encountered total cyanide above drinking water samples, but free cyanide was below detection limits. Copper and nickel were encountered above the EQS within all monitoring rounds, and sporadic elevated concentrations of sulphate, chloride, phenol, iron and zinc were recorded. PAH, BTEX and TPH concentrations were all below detection limit within groundwater.<br>Within the purifier catch boxes, a base slab was encountered and monitoring suggests the structure is retaining water. High pH, cyanide, ammonium, PAHs, metals and TPH recorded within leachate samples whichs was reflected within water samples from within the structure. A downgradient monitoring well (MW25-18) recorded exceedances of total cyanide, sulphate, ammonium, iron and nickel at much lower concentrations, and PAHs and TPHs below the detection limit. This suggests that contaminants may not be fully contained within the purifier catch boxes. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Likely | Moderate risk | Exceedances of the EQS were recorded within leachate and water samples. The presence of a base and walls within the catch boxes will restrict leaching into the underlying aquifer, however downgradient wells suggest some migration is occuring. Subsurface structures such as drainage and service channels, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | | Leaching/dissolution | Medium | Likely | Moderate risk | Exceedances of the EQS were recorded within leachate and water samples. The presence of a base and walls within the catch boxes will restrict leaching into the underlying aquifer, however downgradient wells suggest some migration is occuring. Groundwater regime on- and off- site is complex therefore uncertainties remain. Groundwater flow is believed to be west however there is considered to be a large distance to both brooks. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Severe | Low likelihood | Moderate risk | The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |
| Scrubbers and condensers in Area B | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Likely | High risk | The former scrubbers and condensers were located beneath/between Blocks 1 and 2 and are largely uninvestigated due to the buildings. MW25-16 was excavated within the vicinity of the former scrubbers, downgradient from the suspected condensers. Made Ground was encountered to 1.85 m bgl and noted a strong hydrocarbon (fuel and tar) odour with a silvery sheen and small pockets of tar. The contamination continued into the natural clay below, with black product noted in fissures and sandy gravel layers. Clay extended beyond the base of the borehole (5.4 m bgl), with contamination no longer present from 4.5 m bgl. A dual installation was installed to target the shallow Made Ground and any groundwater contained within sandy bands/fissures. PAHs above residential guidelines were noted within shallow soils. |
| | | Vapour migration | Severe | Likely | High risk | Made Ground was encountered to 1.85 m bgl and noted a strong hydrocarbon (fuel and tar) odour with a silvery sheen and small pockets of tar. The contamination continued into the natural clay below, with black product noted in fissures and sandy gravel layers. Exceedances of volatile contaminants (PAHs, benzene and 1,2,4-Trimethylbenzene) within deeper soils and various volatile contaminants were recorded within groundwater (naphthalene, benzene, TPH and 1,2,4-Trimethylbenzene). |
| | | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations. No highly putrescible and organic material was noted within logs. |
| | | Diffusion through drinking water pipes | Medium | Low likelihood | Moderate/low risk | Odours were noted below 1.85m bgl, however there is the potential for shallower contamination to occur within these structures, therefore pipework may come into contact with contamination. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Likely | Moderate risk | Public open space generally comprises landscaped areas and attenuation ponds which will have less usage than private residential areas therefore the likelihood of direct contact will be lower. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | PAHs above residential guidelines were noted within shallow soils. The scrubbers and condensers are located along the southwestern boundary. |
| | | Gas migration | Severe | Unlikely | Moderate/low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations. No highly putrescible and organic material was noted within logs. |
| | | Vapour migration | Medium | Likely | Moderate risk | Made Ground was encountered to 1.85 m bgl and noted a strong hydrocarbon (fuel and tar) odour with a silvery sheen and small pockets of tar. The contamination continued into the natural clay below, with black product noted in fissures and sandy gravel layers. Exceedances of volatile contaminants (PAHs, benzene and 1,2,4-Trimethylbenzene) within deeper soils and various volatile contaminants were recorded within groundwater (naphthalene, benzene, TPH and 1,2,4-Trimethylbenzene). Given the location of these features, there is the potential for volatile contaminations to migrate offsite within groundwater. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Scrubbers and condensers are not located within close proximity to commercial properties |
| | | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations. No highly putrescible and organic material was noted within logs. |

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| | | Vapour migration | Medium | Unlikely | Low risk | Scrubbers and condensers are not located within close proximity to commercial properties and are down-hydraulic gradient. No exceedances of the commercial criteria were recorded within dedicated vapour samples taken from shallow monitoring wells. |
| | Off-site Public Open Space (Park) Users | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | As hydrocarbons have been identified within deeper soils and are evident within groundwater, there is a risk from vapours migrating off-site within groundwater. Groundwater in the southern area is assumed to flow to the west, with some potential to flow to the southwest. However, the generaly open-aired environment will not allow for significant build up of vapours. |
| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Severe | Likely | High risk | Made Ground was encountered to 1.85 m bgl and noted a strong hydrocarbon (fuel and tar) odour with a silvery sheen and small pockets of tar. The contamination continued into the natural clay below, with black product noted in fissures and sandy gravel layers. Clay extended beyond the base of the borehole (5.4 m bgl), with contamination no longer present from 4.5 m bgl. A dual installation was installed to target the shallow Made Ground and any groundwater contained within sandy bands/fissures. A leachate sample presented elevated total cyanide, ammonium, PAHs, metals, benzene and TPH, and groundwater samples (both shallow and deep) showed consistently elevated conductivity, total cyanide, chloride, phenol, PAHs, metals, BTEX and TPH. Significantly high ammonium was recorded within the deeper installation and the shallow installation showed elevated sulphate. It should be noted that, outside of former features such as gasholders and purifiers, MW25-16A-D recorded the highest conductivity, chloride and ammonium, with MW25-16A-S recording the highest concentrations of PAHs in groundwater. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Likely | Moderate risk | Exceedances of the EQS were recorded within leachate and water samples. Subsurface structures such as drainage and service channels, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | | Leaching/dissolution | Medium | Likely | Moderate risk | Exceedances of the EQS were recorded within leachate and water samples. Groundwater regime on- and off- site is complex therefore uncertainties remain. Groundwater flow is believed to be west however there is considered to be a large distance to both brooks. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Severe | Low likelihood | Moderate risk | The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |
| Former brick structures with timber base in Area B | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Likely | High risk | Three rectangular features were recorded on historical maps towards the centre of the western site boundary. MW25-09C was undertaken within this area, which encountered a redbrick structure to 7 m bgl with a suspected timber base / Made Ground to 9.45 m bgl onto very stiff clay. Black staining and odours were noted on the structure, with NAPL globules and sheens within the timber/Made Ground below. The natural clay did not appear to be impacted. It is suspected that MW25-09C was processed along the inside of a former purifier wall, which is likely containing a varying degree on hydrocarbon contamination and free product. Laboratory analysis showed exceedances of the residential criteria within shallow soils for PAHs and lead. |
| | | Vapour migration | Severe | Low likelihood | Moderate risk | Black staining and odours were noted on the structure, with NAPL globules and sheens within the timber/Made Ground below. Laboratory analysis showed volatile naphthalene at 8.4 m bgl, with no shallower exceedances of volatile contaminants. A monitoring well installed within the base of the structure did not show volatiles above the residential AQAC within groundwater samples. |
| | | Gas migration | Medium | Low likelihood | Moderate/low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations. Timber was recorded, however this is likely to be the base of the structure. |
| | | Diffusion through drinking water pipes | Medium | Low likelihood | Moderate/low risk | TPH was generally low withhin soils. Odours and staining were encountered below the depth that pipework would likely be installed. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Public open space generally comprises landscaped areas and attenuation ponds which will have less usage than private residential areas therefore the likelihood of direct contact will be lower. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Laboratory analysis showed exceedances of the residential criteria within shallow soils for PAHs and lead. |
| | | Gas migration | Severe | Unlikely | Moderate/low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations. Timber was recorded, however this is likely to be the base of the structure. |
| | | Vapour migration | Medium | Low likelihood | Moderate/low risk | Black staining and odours were noted on the structure, with NAPL globules and sheens within the timber/Made Ground below. Laboratory analysis showed volatile naphthalene at 8.4 m bgl, with no shallower exceedances of volatile contaminants. A monitoring well installed within the base of the structure did not show volatiles above the residential AQAC within groundwater samples. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | The structure is not located within close proximity to commercial properties |
| | | Gas migration | Medium | Unlikely | Low risk | Whilst dedicated gas monitoring has not been completed within this feature, wider gas monitoring showed no significantly elevated ground gas concentrations. Timber was recorded, however this is likely to be the base of the structure. |
| | | Vapour migration | Medium | Unlikely | Low risk | The structure is not located within close proximity to commercial properties and are down-hydraulic gradient. |

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| | Off-site Public Open Space (Park) Users | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Parks not in close proximity to the structure. |
| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Medium | Low likelihood | Moderate/low risk | The redbrick structure to 7 m bgl with a suspected timber base / Made Ground to 9.45 m bgl appeared to be intact, sitting onto very stiff clay. Black staining and odours were noted on the structure, with NAPL globules and sheens within the timber/Made Ground below. The natural clay did not appear to be impacted. It is suspected that the former feature is likely containing a varying degree on hydrocarbon contamination and free product. Cyanide, ammonium, fluoranthene, copper and TPH were encountered within leachate samples at 8.4 m bgl and water analysis showed consistent exceedances of cyanide, ammonium, iron, copper and TPH. A downgradient monitoring well (CBH108) showed similar concentrations of total cyanide, sulphate, iron and copper. TPHs were below detection limit but ammonium concentrations were higher downgradient. This suggests it is unlikely that significant hydrocarbon contamination is migrating from the former structures, and that dissolved phase contamination is similar both inside and outside of the structures. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Low likelihood | Moderate/low risk | Exceedances of the EQS were recorded within leachate and water samples. The presence of a base and walls will restrict leaching into the neighbouring aquifer; downgradient wells suggest dissolved phase concentrations are similar within and outside of the former structure. Subsurface structures such as drainage and service channels, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | | Leaching/dissolution | Medium | Low likelihood | Moderate/low risk | Exceedances of the EQS were recorded within leachate and water samples. The presence of a base and walls will restrict leaching into the neighbouring aquifer; downgradient wells suggest dissolved phase concentrations are similar within and outside of the former structure. Groundwater regime on- and off- site is complex therefore uncertainties remain. Groundwater flow is believed to be west however there is considered to be a large distance to both brooks. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Medium | Low likelihood | Moderate/low risk | The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |
| Reservoir and settling tanks in Area B | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Low likelihood | Moderate risk | The settling tanks and reservoir are shown in the north of Area B; there is a potential that these features were infilled, however details surrounding this, including the composition of any infill material are unknown. Within the settling tanks, Made Ground was encountered to 0.85 m bgl overlying natural sand. Occasional wood was noted within the Made Ground with a light to moderate tar odour and black staining. A mild organic odour was recorded within the underlying sand. PAHs were recorded within the Made Ground soils above residential criteria. The settling tanks partially encroach on proposed back garden areas.<br>Within the reservoir, Made Ground was encountered to 3 m bgl with moderate tar/hydrocarbon odours with black staining and a silver sheens from 2 m bgl. Faint hydrocarbon odours were recorded within the underlying sands. No exceedances of the residential criteria were noted within shallow soils. |
| | | Vapour migration | Severe | Unlikely | Moderate/low risk | Within the settling tanks Made Ground was encountered to 0.85 m bgl overlying natural sand. Occasional wood was noted within the Made Ground with a light to moderate tar odour and black stainin and a mild organic odour was recorded within the underlying sand. No exceedances of residential criteria were recorded within soils, vapour or groundwater.<br>Within the reservoir, Made Ground was encountered to 3 m bgl with moderate tar/hydrocarbon odours with black staining and a silver sheens from 2 m bgl. Faint hydrocarbon odours were recorded within the underlying sands. Volatile free cyanide was encountered within deeper Made Ground soils however no exceedances of residential criteria were recorded within groundwater. |
| | | Gas migration | Medium | Unlikely | Low risk | Occasional wood was noted within the Made Ground and a mild organic odour within underlying sands. Based on three rounds of ground gas monitoring within MW25-22, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Diffusion through drinking water pipes | Medium | Unlikely | Low risk | Generally, low TPH and no significant shallow odours/staining was observed |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Public open space generally comprises landscaped areas and attenuation ponds which will have less usage than private residential areas therefore the likelihood of direct contact will be lower. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Unlikely | Low risk | PAHs were recorded within the Made Ground soils above residential criteria. Residential properties are located >40 m from the structures suggesting direct contact is not likely. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within MW25-22, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Vapour migration | Medium | Low likelihood | Moderate/low risk | Within the settling tanks, no exceedances of residential criteria were recorded within soils, vapour or groundwater.<br>Within the reservoir, volatile free cyanide was encountered within deeper Made Ground soils however no exceedances of residential criteria were recorded within groundwater. |

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| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | The structures are not located within close proximity to commercial properties |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within MW25-22, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. |
| | | Vapour migration | Medium | Unlikely | Low risk | The structures are not located within close proximity to commercial properties. No exceedances of the commercial criteria were recorded within dedicated vapour samples taken from shallow monitoring wells. |
| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Medium | Low likelihood | Moderate/low risk | Within the settling tanks, total cyanide, ammonium, PAHs, metals and TPH were recorded within leachate, however ammonium, copper and nickel were consistent within groundwater. PAHs, phenols, BTEX and TPH were all below detection limits.<br>Within the reservoir, total cyanide, copper, mercury, nickel and low concentrations of ammonia were recorded within leachate. Within groundwater, total cyanide, sulphate, ammonium, copper and nickel were recorded above water quality standards. Hydrocarbons were below detection limits within leachate and groundwater samples. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Low likelihood | Moderate/low risk | Exceedances of the EQS have been recorded within leacate and groundwater. Historical mapping of the settling tanks shows a drainage line and tributary to Battling Brook passing through the site, trending north-east to south-west, via the settling tanks. It is unclear whether these structures remain below-ground or act as a pathway for contaminated groundwater within the made ground and superficial deposits. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | | Leaching & dissolution followed by migration in groundwater | Medium | Unlikely | Low risk | Exceedances of the EQS have been recorded within leacate and groundwater. Groundwater regime on- and off- site is complex therefore uncertainties remain. Groundwater flow is believed to be northwest, likely towards the Battling Brook, however there is considered to be a large distance. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Medium | Unlikely | Low risk | Groundwater flow direction within this area of the site is away from the groundwater abstraction. |
| | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Likely | Moderate risk | The proposed development comprises the construction of residential properties with private gardens which extend across Area C. A former coke tip is mentioned within Celtic (2005) as being located in the 'main car park' – Area A. The report notes that little information known about the coke tip. Made Ground within Area A was encountered to between 0.5 and 1 m bgl during the 2025 investigation. Whilst instances of coal and clinker were noted within field logs, there is little evidence that significant contamination has arisen from the potential former use as a coke tip. Exceedances of the residential criteria for arsenic and lead were noted within the shallow Made Ground. |
| | | Vapour migration | Severe | Low likelihood | Moderate risk | No exceedances of the residential guidelines for volatile contaminants were recorded within soil or groundwater samples from Area A. Exceedances of the residential criteria were observed for 1,2,4-trimethylbenzene, benzene and TPH aliphatic C8-C10 in vapour samples from VW25-04 only. 1,2,4-trimethylbenzene and TPH Aliphatic C8-C10 were only encountered within the second monitoring round whereas benzene was encountered within all three monitoring rounds. No evidence of hydrocarbon contamination (odours or staining) was encountered during excavation of VW25-04 and two soil samples analysed from within the Made Ground identified benzene concentrations below detectable limits. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. However, concentrations of carbon dioxide greater than 5 % (maximum 6 %) were observed during the second and third round of monitoring at VW25-04 and, with reference to BS8485, an increase to CS2 should be considered. Within this location, generally low oxygen levels were recorded and carbon monoxide was above the detection limit within the first round of monitoring. |
| | | Diffusion through drinking water pipes | Medium | Unlikely | Low risk | TPH was generally low withhin soils and no significant hydrocarbon staining or odours were recorded within the Made Ground. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | Public open space generally comprises landscaped areas and attenuation ponds which will have less usage than private residential areas therefore the likelihood of direct contact will be lower. |
| | Off-site Residential Properties | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Low likelihood | Moderate/low risk | No odours or staining was recorded within any intrusive location. Exceedances of the residential criteria for arsenic and lead were noted within the shallow Made Ground. Migration of dust and direct contact is considered possible, but of low likelihood. |
| | | Gas migration | Medium | Unlikely | Low risk | Based on three rounds of ground gas monitoring within shallow installations across the site, no significantly elevated ground gas concentrations were observed. Based on calculated GSV values, a characteristic situation of CS1 can be adopted. However, concentrations of carbon dioxide greater than 5 % (maximum 6 %) were observed during the second and third round of monitoring at VW25-04 and, with reference to BS8485, an increase to CS2 should be considered. Within this location, generally low oxygen levels were recorded and carbon monoxide was above the detection limit within the first round of monitoring. Given the underlying Wolston Clay Deposits are redominently fine grained with some granular layers, in combination with the minimal thickness of Made Ground, gas migration is considered unlikely. |

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| Made Ground within Area A (former coke tip) | | Vapour migration | Medium | Unlikely | Low risk | No exceedances of the residential guidelines for volatile contaminants were recorded within soil or groundwater samples from Area A. Exceedances of the residential criteria were observed for 1,2,4-trimethylbenzene, benzene and TPH aliphatic C8-C10 in vapour samples from VW25-04 only. 1,2,4-trimethylbenzene and TPH Aliphatic C8-C10 were only encountered within the second monitoring round whereas benzene was encountered within all three monitoring rounds. No evidence of hydrocarbon contamination (odours or staining) was encountered during excavation of VW25-04 and two soil samples analysed from within the Made Ground identified benzene concentrations below detectable limits. Given the underlying Wolston Clay Deposits are redominently fine grained with some granular layers, in combination with the minimal thickness of Made Ground, gas migration is considered unlikely. |
| | Off-site commercial workers | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Area A is not located within close proximity to commercial properties. |
| | | Gas migration | Medium | Unlikely | Low risk | Significant gas migration is not envisioned. Area A is not located within close proximity to commercial properties. |
| | | Vapour migration | Medium | Unlikely | Low risk | Area A is not located within close proximity to commercial properties. No exceedances of the commercial criteria were recorded within dedicated vapour samples taken from shallow monitoring wells. |
| | Off-site Public Open Space (Park) Users | Migration and direct contact (ingestion/dermal/contact/inhalation/uptake) | Medium | Unlikely | Low risk | Given the concentrations identified onsite, significant migration of contaminants is not envisioned. |
| | Groundwater (Wolston Sand & Gravel) | Leaching/dissolution | Medium | Unlikely | Low risk | Soil leachate exceedances of the EQS were recorded within within Area A. Ammoniacal nitrogen as N, total chromium, lead, nickel, iron and copper had a HQ of less than 5, whilst fluoranthene had a HQ of 14 and was recorded above the EQS in two of the three samples. Fluoranthene was below the detection limit within all groundwater samples suggesting it is not mobilising to groundwater. Groundwater exceedances of the EQS (copper, nickel and zinc) had a HQ of less than 4. Only copper and nickel exceedances were observed within both leachate and groundwater, and of those nickel was only encountered within one of 15 samples. Elevated copper was encountered within all groundwater monitoring rounds, within two of three leachate samples, and within the majority of both upstream and downstream surface water samples. No NAPL or heavily hydrocarbon-contaminated materials were encountered within Area A. No major source of contamination has been identified within the Made Ground; Clinker was encountered, however the thickness of Made Ground is generally less than 1m. The underlying strata is classified as unproductive. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Unlikely | Low risk | No major source of contamination has been identified within the Made Ground; Clinker was encountered, however the thickness of Made Ground is generally less than 1m. The underlying strata is classified as unproductive. |
| | | Leaching/dissolution | Medium | Unlikely | Low risk | No major source of contamination has been identified within the Made Ground; Clinker was encountered, however the thickness of Made Ground is generally less than 1m. The underlying strata is classified as unproductive. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Medium | Unlikely | Low risk | Groundwater flow within Area A is away from the groundwater abstraction. |
| NAPL and contaminated groundwater (dissolved phase) in Sand and Gravels | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Severe | Unlikely | Moderate/low risk | Residents will unlikely come into contact with groundwater within the south of the site. Within the north of the site contaminants were identified within shallow groundwater, however these are not considered to cause significant harm. |
| | | Vapour migration | Severe | Low likelihood | Moderate risk | Exceedances of the residential GACgwvap have been identified within groundwater samples taken within Area B, comprising naphthalene, mercury (inorganic), benzene, aliphatic C10-12, aromatic C8-10, aromatic C10-12 and 1,2,4-Trimethylbenzene. Exceedances were concentrated within the south and southwest of the site, and within former gasholders and generally correspond to locations where hydrocarbon odours and staining were noted within groundwater. However no significant exceedances of the residential AQAC were noted within dedicated shallow monitoring wells in the southeast of the site where the most significant hydrocabon contamination was recorded within groundwater. |
| | | Diffusion through drinking water pipes | Severe | Low likelihood | Moderate risk | Pipework will unlikely come into contact with groundwater within the south of the site. Within the north of the site contaminants were identified within shallow groundwater, however these are not considered to easily diffuse through drinking water pipes. |
| | Future site users – public open space | Vapour migration | Medium | Low likelihood | Moderate/low risk | NAPL and exceedances of the residential criteria were recorded within groundwater. However the open-aired environment will mitigate significant vapour buildup. |
| | Off-site Residential Properties | Vapour migration | Severe | Unlikely | Moderate/low risk | Potential risks are currently mitigated by the containment system and the presence of vapour barriers in off-site properties. However, as part of the strategy and detailed design, these possible risks should be reassessed |
| | Off-site commercial workers | Migration in groundwater/NAPL followed by vapour migration | Medium | Unlikely | Low risk | Groundwater flow is away from commercial properties. |
| | Off-site Public Open Space (Park) Users | Vapour migration | Medium | Unlikely | Low risk | NAPL and exceedances of the residential criteria were recorded within groundwater. There is the potential for volatiles to migrate offsite to the parks in the south, however the open-aired environment will mitigate significant vapour buildup. |

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| | Groundwater (Wolston Sand & Gravel) | - | Severe | Likely | High risk | NAPL and free-phase contaminants (including, but not limited to, high cyanide and ammonium/ammoniacal nitrogen) are already identified in groundwater. |
| | Surface Water (Sketchley Brook & Battling Brook) | Migration via service routes (site drainage/sewers) | Medium | Likely | Moderate risk | NAPL and free-phase contaminants (including, but not limited to, high cyanide and ammonium/ammoniacal nitrogen) are already identified in groundwater. Subsurface structures such as drainage and service channels, as well as direct channels from springlines to surface waters may act as pathways for contaminants to reach surface water. However, onsite drainage will be assessed as part of the residential development and should not allow migration of contaminants. |
| | | Migration in groundwater | Medium | Low likelihood | Moderate/low risk | NAPL and free-phase contaminants (including, but not limited to, high cyanide and ammonium/ammoniacal nitrogen) are already identified in groundwater. Groundwater regime on- and off- site is complex therefore uncertainties remain. Groundwater flow is believed to be west however there is considered to be a large distance to both brooks. |
| | Groundwater abstraction (860 m south, for general farming and domestic use) | Leaching & dissolution followed by migration in groundwater | Severe | Low likelihood | Moderate risk | NAPL and free-phase contaminants (including, but not limited to, high cyanide and ammonium/ammoniacal nitrogen) are already identified in groundwater. The site is not located within a Source Protection Zone and there is uncertainty surrounding the nearest groundwater abstaction. |
| Offsite sources (Former Dye Works/ Hosiery Factory, Printing & Packaging Works) | Future site users – residential | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Unlikely | Low risk | The adjacent offsite historical sources likely involved the use of dyes and solvents. In 1993, free-phase tar and asbestos was removed from the boundary of the sites. A bentonite slurry cut-off wall was recommended to prevent further on-site migration; however, it is unknown whether this was installed (Celtic, 1999). That the offsite sources have since been redeveloped. |
| | | Vapour/gas migration | Medium | Unlikely | Low risk | The adjacent offsite historical sources likely involved the use of dyes and solvents. In 1993, free-phase tar and asbestos was removed from the boundary of the sites. A bentonite slurry cut-off wall was recommended to prevent further on-site migration; however, it is unknown whether this was installed (Celtic, 1999). That the offsite sources have since been redeveloped. |
| | | Diffusion through drinking water pipes | Medium | Unlikely | Low risk | The adjacent offsite historical sources likely involved the use of dyes and solvents. In 1993, free-phase tar and asbestos was removed from the boundary of the sites. A bentonite slurry cut-off wall was recommended to prevent further on-site migration; however, it is unknown whether this was installed (Celtic, 1999). That the offsite sources have since been redeveloped. |
| | Future site users – public open space | Direct contact (ingestion/dermal contact/inhalation/uptake) | Medium | Unlikely | Low risk | The adjacent offsite historical sources likely involved the use of dyes and solvents. In 1993, free-phase tar and asbestos was removed from the boundary of the sites. A bentonite slurry cut-off wall was recommended to prevent further on-site migration; however, it is unknown whether this was installed (Celtic, 1999). That the offsite sources have since been redeveloped. |
| | Groundwater onsite (Wolston Sand & Gravel) | Leaching & dissolution followed by migration of groundwater | Medium | Low likelihood | Moderate/low risk | The adjacent offsite historical sources likely involved the use of dyes and solvents. In 1993, free-phase tar and asbestos was removed from the boundary of the sites. A bentonite slurry cut-off wall was recommended to prevent further on-site migration; however, it is unknown whether this was installed (Celtic, 1999). That the offsite sources have since been redeveloped. |