



e3p

Remediation and Enabling Works Validation Report
Belle Vue

Reference:12-123-R5-2
Date: August 2022



REMEDIATION AND ENABLING WORKS VALIDATION

Belle Vue Greyhound Stadium
Kirkmanshulme Lane
Manchester
M18 7BD

Prepared for:
Countryside Properties



Report Ref: 12-123-R5-2
Date Issued: August 2022

Belle Vue

Remediation and Enabling Works Validation
August 2022

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1. INTRODUCTION

1.1. BACKGROUND

This report details the remediation and enabling works operations that were undertaken by Urban Regen under the supervision of E3P to facilitate the preparation of the low-rise residential development on a parcel of land formerly occupied by Belle Vue Greyhound Stadium located to the south of Kirkmanshulme Lane and southwest of Hyde Road (A57), Manchester; herein referred to as the site.

E3P was appointed by Countryside Properties as an independent Geo-Environmental Consultant for the site remediation, preparation / enabling and validation works and the subsequent production of a suitably detailed report to ensure the satisfaction of the relevant planning conditions and geotechnical engineering requirements for Building Control, warranty providers and the future adoption of infrastructure by the Highways Authority and statutory service providers.

1.2. PROPOSED DEVELOPMENT

Countryside Properties intends to construct a low-rise residential development comprising housing and apartments with associated gardens, estate roads and infrastructure.

E3P has been provided with a planning layout detailing the proposed construction of 80 apartments within one part 3 and one part 4 storey block and one no. 3-storey block. Along with the construction 167 dwellings with associated car parking, boundary treatments and landscaping, the creation of new roads and access points off Kirkmanshulme Lane. Drawing 12-123-004 (Appendix III) identifies the proposed development layout.

A snapshot of the proposed development layout is indicated in Figure 1.1 below.

FIGURE 1.1 SNAPSHOT OF PROPOSED DEVELOPMENT



1.3. SUMMARY OF PARTIES INVOLVED

Function/interest	Name of Party
Local Planning Authority	Manchester City Council
Developer	Countryside Properties
Geoenvironmental Consultant	E3P
Main Contractor	Countryside Properties
Remediation/Enabling Works Contractor	Urban Regen
Human Health Regulator	Manchester City Council
Controlled Waters and Waste Regulator	Environment Agency
Highways Adoption Authority	Manchester City Council

1.4. PREVIOUS WORKS

The following previous phases of site investigation and assessment have been completed at the subject site:

- ✿ **DB Remediation** – Site Investigation, Belle Vue. Ref: Report No. R1010-2014, dated 2014.
- ✿ **E3P Ltd** - Phase I and Phase II Geo-Environmental Site Assessment, Ref: Report No. 12-123 -r1 Rev 3, dated February 2019.

Subsequent to the issuing of the initial draft of the Remediation Strategy, E3P completed additional phases of intrusive investigation; the addendum letter report references are summarised below:

- ✿ **E3P Ltd**- Ground Gas Addendum Report, Belle Vue ref: 12-123-R3-1, dated April 2020
- ✿ **E3P Ltd** - Supplementary Site Investigation Belle Vue Ref:12-123-L5 Rev 1, dated April 2021
- ✿ **E3P Ltd** - Supplementary Site Investigation Belle Vue Greyhound Stadium, Levenshulme Ref:12-123-L6, dated October 2021
- ✿ **E3P Ltd** - Decommissioning of Well Former Belle Vue Greyhound Stadium, Gorton ref:12-123-L7, dated October 2021
- ✿ **E3P Ltd** – Material Management Plan, Belle Vue Manchester, ref: 12-123-R4-4, dated February 2022
- ✿ **E3P Ltd**- Human Health Assessment Addendum Belle Vue Greyhound Stadium, Levenshulme ref:12-123-L8, dated May 2022

These documents were utilised to develop the following Remediation and Enabling Works Strategy:

- ✿ **E3P Ltd** - Remediation & Enabling Works Strategy 12-123-R2 Rev 4, dated June 2021

The above documents should be read in conjunction with this Validation Report.



1.5. REGULATORY CORRESPONDENCE

Frequent correspondence with the environmental health officer, Laura Miller, has taken place throughout the work, with further supplementary works and assessments taking place regularly to improve the data set and conceptual site model of the site.

Planning approval for the redevelopment of the site was granted on the 3rd of November 2020 (Application 122160/FO/2018).



2. SUMMARY OF REMEDIATION AND ENABLING WORKS OBJECTIVES

The proposed remediation activities were detailed within the E3P Remediation and Enabling Works Strategy (12-123-R2-Rev 4; dated June 2021) and supplementary supporting documents provided by E3P.

This report has been prepared to document the completion of all necessary land remediation and enabling works and to record the presence of any variation in ground conditions or previously unidentified sources of potential contamination, environmental impact or potential nuisance to the wider environment.

The Remediation and Enabling Works elements are summarised below:

- ✿ RE-1 – Pre-commencement Supplementary Site Investigation
- ✿ RE-2 – Pre-commencement Regulatory Compliance
- ✿ RE-3 – Environment and Nuisance Control
- ✿ RE-4 – Risk to Infrastructure
- ✿ RE-5 – Identification, Isolation and Treatment of Invasive Plants
- ✿ RE-6 – Site Clearance and Demolition Operations
- ✿ RE-7 – Delineation, Excavation and Treatment of Identified Asbestos Impact
- ✿ RE-8 – Delineation, Excavation, Treatment & Disposal of Volatile Impacted Material
- ✿ RE-9 – Excavation, Breaking and Processing of All Above- and Below-Ground Structures
- ✿ RE-10 – Decommissioning of Abstraction Borehole
- ✿ RE-11 – Cut-And-Filling of Made Ground to Development Levels
- ✿ RE-12 – Construction of Temporary Working Platform
- ✿ RE-13 – Replacement of Materials Geotechnical Engineering Requirements
- ✿ RE-14 – Preparation of Ground for Vibro-Stone Columns Within Tree Influence
- ✿ RE-16 – Investigation and Removal of Compressible Peat
- ✿ RE-17 – Chemical Validation of the Electrical Substation
- ✿ RE-18 – Importation of Bulk Fill
- ✿ RE-19 – Preparation of Garden for Cover System
- ✿ RE-20 – Provision of Subsoil
- ✿ RE-21 – Provision of Topsoil
- ✿ RE-22 – Remedial Verification Report



3. SECOND PHASE MITIGATION AND MANAGEMENT – BUILD PHASE

A second post-demolition phase of works will be required to ensure the proposed development is constructed in a manner that incorporates the required mitigation measures to ensure the development is compliant with UK Building Regulations and the Local Authority Planning requirements.

These obligations are specified in more detail within Section 5.



4. DETAILED REMEDIATION AND ENABLING WORKS ACTIVITIES

The focus of the remediation and enabling works is to address the contaminant issues previously identified within the site investigations that presented an unacceptable risk to human health following the site's redevelopment.

For completeness, each of these activities has been discussed below within the context of the actual remediation works that were undertaken on site.

The Remediation & Site Enabling works commenced in May 2021 and were completed by the 21st of May 2022.

RE-1 – PRE-COMMENCEMENT SUPPLEMENTARY SITE INVESTIGATION

DATE OF WORKS UNDERTAKEN

Throughout

PHOTOGRAPHS

Plate 1-5

CHEMICAL TESTING

200 Series

I2 Analytical Report 20-36745-1

300 Series

I2 Analytical Report 20-42509-2

I2 Analytical Report 20-42509-1

400 Series

I2 Analytical Report 21-12415-1

I2 Analytical Report 21-97793-1

I2 Analytical Report 21-99373-1

OVERVIEW OF WORKS

Background

The original site investigation (February 2018) was limited due to the presence of site activities and buildings on site. As such, several phases of the further investigation were required during the remediation and enabling works in order to determine ground conditions and confirm any areas of previously unidentified contamination.

Overview of Works

In summary, three series of further works have taken place to investigate the racetrack, parts of the car park and beneath the former buildings.

For the pre-commencement site investigation, specifically, the first round of supplementary investigation is relevant. The details of the other rounds of investigation are detailed within RE 9 and 10.

Chemical samples of the Made Ground primarily were taken from trial pits and sent for chemical analysis in order to determine the risk of soils with respect to VOC and SVOC. Any positive and exceeding concentrations of SVOC were highlighted and subsequently removed during a process of hotspot removal by the attending consultant and principal remediation contractor.



Series 200 and 300 Investigation

E3P completed a supplementary intrusive ground investigation in October 2020 to complete 17 mechanically excavated trial pits within the stadium and on the 18th of November 2020 to complete 10 trial pits on the surrounding hardstanding around the stadium's perimeter. Environmental samples were taken and subjected to appropriate chemical laboratory analysis.

An assessment of the results concluded several exploratory locations have indicated impacted soils that pose elevated risks to human health, the controlled water receptors and the wider environment. As part of the remediation and enabling works for the site, it is recommended that impacted materials within TP106, TP202, TP215, TP303, TP306 and TP309 be delineated and assessed to determine the best means to manage these materials. Furthermore, elevated total mercury has been identified in the shallow granular Made Ground at TP215.

A full summary of results is provided within Supplementary Geoenvironmental Site Investigation Belle Vue 12-123-L5 Rev 1, dated April 2021.

Series 400 Investigation

E3P completed a supplementary post demolition intrusive ground investigation in September 2021 comprising eight mechanically excavated trial pits with environmental samples taken and subjected to appropriate chemical laboratory analysis. This phase of work was completed immediately after the demolition of the buildings was complete.

The supplementary investigation targeted areas beneath the former building footprints. Environmental samples were collected to test for a range of contaminants relevant for the site, including heavy metals, speciated PAHs, total petroleum hydrocarbons, SVOC analysis, VOCs and asbestos identification and quantification.

An assessment has identified the presence of elevated heavy metals and non-volatile PAHs within the shallow Made Ground at TP401, TP402, TP404, TP406, TP407 and TP408. Asbestos above the Generic Assessment Criteria has been identified within TP404 (0.30 m) with quantification of <0.001%. Chemical analysis of the natural CLAY drift deposits have identified these soils to be acceptable for use as subsoil within the proposed garden areas.

A full summary of results is provided within Supplementary Site Investigation Belle Vue Greyhound Stadium, 12-123-L6 Rev 1, dated October 2021.

RE-2 – PRE-COMMENCEMENT REGULATORY COMPLIANCE**DATE OF WORKS UNDERTAKEN**

Prior to commencement

OVERVIEW OF WORKS

Frequent correspondence with the Manchester City Council environmental health officer has taken place throughout the works with further supplementary works and assessments taking place regularly to improve the data set and conceptual site model of the site.

Planning approval for the redevelopment of the site was granted on the 3rd of November 2020 (Application 122160/FO/2018).

The site was granted U1 and T5 exemptions for the re-use of material; other imported materials are outlined within the Material Management Plan, Belle Vue Manchester, ref: 12-123-R4-4, dated February 2022 completed by E3P. The declaration reference for such is 2021-11-22 10:58:34.



RE-3 – ENVIRONMENT AND NUISANCE CONTROL**DATE OF WORKS UNDERTAKEN**

Throughout

PHOTOGRAPHS

NA

OVERVIEW OF WORKS

During remediation, works were restricted to between 8.00am and 5.30pm.

A road sweeper was present part-time to keep the access and Kirkmanshulme Lane clean and clear of debris during the importation of materials to the site.

Heras and wood-panelled fencing was erected around the site boundary with appropriate health and safety signage.

Scrap metal and waste were segregated and placed into allotted skips for removal off-site.

A badger license was issued prior to working in the vicinity of the sett.

RE-4 – RISK TO INFRASTRUCTURE**DATE OF WORKS UNDERTAKEN**

Throughout

OVERVIEW OF WORKS

During remediation, fencing was erected along boundary walls to ensure no damage was done by the on-site plant until ownership and liability were established for the boundary walls. Once confirmed, these were removed as per the design plans.

Works carried out in the vicinity of any boundaries were carefully monitored by the site manager to ensure structures or infrastructure that were to remain on-site or within close proximity to the site such as property boundaries and highways were not undermined to cause unnecessary disturbance.

Existing live services located adjacent to the main road were cordoned off to ensure no damage to both the on-site contractor and the service itself.

RE-5 – IDENTIFICATION, ISOLATION AND TREATMENT OF INVASIVE PLANTS**DATE OF WORKS UNDERTAKEN**

The 10th of October 2018 – the 12th of January 2019

PHOTOGRAPHS

Plate 10-14

CHEMICAL TESTING

I2 Analytical Report 21-12426-1 Belle Vue 12-123.

I2 Analytical Report 21-12428-1 Belle Vue 12-123. (WAC analysis)



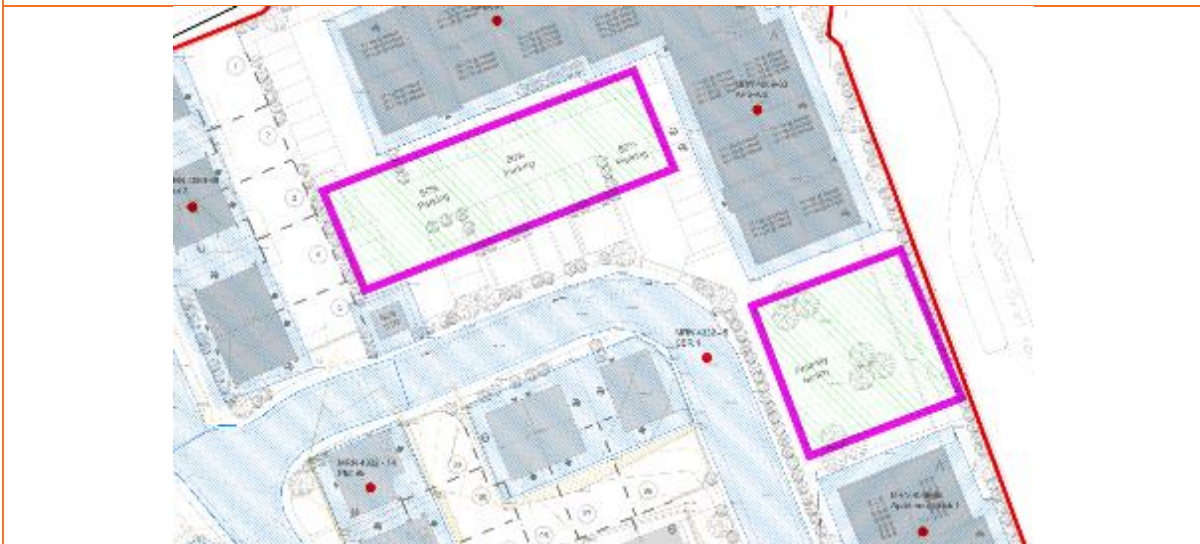
OVERVIEW OF WORKS

Japanese Knotweed was identified along the southern boundary and in the east of the site. The area was fenced off and isolated up until such a time it could be removed. The programme of remediation involved the excavation of the full lateral and vertical extent of soils contaminated with Knotweed. The contaminated soils were removed by a specialist waste contractor and taken to Cory's Tip in Kingswinford on the 11th of October 2017 for disposal. A membrane was placed against the footpath as a precaution. The Japanese knotweed removal was validated by Knotweed Eradication who have produced a Removal Report and Certificate, which can be requested from the remediation contractor.

Two burial cells are located in the east of the site, which are lined and filled with Japanese Knotweed from the eastern boundary of the site.

Before the removal of the Japanese Knotweed bund in the south of the site, WAC analysis was conducted in the area on the 24th of September. Results concluded the material was suitable Stable Non-reactive hazardous waste in non-hazardous landfills.

The knotweed removal report is included in Appendix VII. All Duty of Care notes are available upon request from Urban Regen.

FIGURE 4.1 LOCATION OF KNOTWEED CELLS**RE-6 – SITE CLEARANCE AND DEMOLITION OPERATIONS****DATE OF WORKS UNDERTAKEN**

Throughout

PHOTOGRAPHS

Plate 5 – 20

OVERVIEW OF WORKS

Former buildings and stands were present on-site before the remediation works. Additionally, concrete slabs, asphalt hardstanding and an electrical substation were present and required removal.



Trees were removed by a specialist contractor, shredded and subsequently removed off-site. A topsoil and vegetation strip was completed across the whole site. Some vegetation and topsoil were stockpiled and later taken off-site.

Throughout the enabling works, scrap metal and general waste were separated from demolition materials and placed into allocated skips for subsequent disposal off-site.

RE-7 – DELINEATION, EXCAVATION AND TREATMENT OF IDENTIFIED ASBESTOS IMPACT

DATE OF WORKS UNDERTAKEN

Throughout

PHOTOGRAPHS

Plate 14-18

CHEMICAL TESTING

I2 Analytical Report 21-93982-2 (TP303)

I2 Analytical Report 21-99373-1 (TP404)

I2 Analytical Report 21-12415-1 (TP408)

OVERVIEW OF WORKS

Background

During the Supplementary works completed in November 2018 asbestos-containing soils were encountered within TP303 at 0.30 m bgl (Chrysotile at 0.001%). The 12-123-L5 report detailed that the asbestos-impacted material must be buried in line with the E3P Conceptual Site Model, with material placed 1.00 m below final finished levels beneath plots, gardens or POS.

During the remediation and enabling works, the existing buildings were identified to contain asbestos, and a scoreboard was identified as containing ACM. This was subsequently removed by a licensed contractor (John Anderson & Son) and E3P chemically and visually validated the base of the excavation.

During the Supplementary works completed in September 2021 asbestos-containing soils were encountered within TP404 at 0.30 m bgl (Amosite at < 0.001%) and visual pieces of ACM within the soils during the excavation were identified in TP408. The 12-123-L6 report detailed that the asbestos impacted material must be buried in line with the E3P Conceptual Site Model. The material was subsequently placed 1.00 m below final finished levels beneath plots and gardens. Soils within TP408 were hand-picked to remove the physical pieces of asbestos by the licensed contractor. These pieces were appropriately handled and removed off-site to a licensed facility. The remaining soils were placed below gardens and plots beneath 1.00m cover.

Overview of Works

On the 18th of August 2021 an area in the vicinity of TP303 underwent a hotspot removal with samples of the sides, and materials within and base of the excavation taken. Samples from the sides, base, and arisings of the hotspot were not found to contain asbestos, no further delineation of the area was required. Excavated material was placed in the north of the site.

On the 24th of September, during supplementary works, visible pieces of ACM material were identified within TP408. Soil samples were collected from the area and analysis. Soils within TP408 were picked by the licensed contract. Results from chemical analysis found an absence of trace fibres and therefore no further assessment was required.



During the remediation and enabling works, asbestos was identified within the existing buildings and scoreboard which was removed by hand picking. Air monitoring was completed during removal with maximum concentrations of fibres recorded as <0.06 fibre/ml. A full summary of results are within appendix VIII All waste was disposed off site at Bradley Park Waste Management.

RE-8 – DELINEATION, EXCAVATION, TREATMENT AND DISPOSAL OF VOLATILE IMPACTED MATERIAL

DATE OF WORKS UNDERTAKEN

Throughout

PHOTOGRAPHS

Plate 18-21

CHEMICAL TESTING

TP106

I2 Analytical Report 21-18955-1 - *Arising and N/E/S/W/BASE*

I2 Analytical Report 21-21504-1 - *Arising and N/E/S/W/BASE*

TP215 (WEST)

I2 Analytical Report 21-15052-2 - *Arising and N/E/S/W/BASE*

I2 Analytical Report 21-15052-1 - *Arising and N/E/S/W/BASE*

I2 Analytical Report 22-40053-1 - *MG-West-001 – 006*

TP303

I2 Analytical Report 21-93982-2 - *TP303 – N/S/E/W/Base and Arising*

TP407 and TP408 (EAST)

I2 Analytical Report 21-27236-1 - *SW MG EAST 001-006*

I2 Analytical Report 21-29895-1 - *SW MG EAST 007-016*

OVERVIEW OF WORKS

Historical investigations identified elevated levels of semi volatile contamination at TP106, TP215 (0.70 m) and TP303 (0.30 m). As such, the Remediation Strategy for the site required these areas to be subjected to a process of hotspot removal.

Supplementary site investigation works beneath the former steps in the east of the site identified elevated mercury and SVOC at TP407 and TP408. As such, a process of hotspot removal was planned to delineate, excavate and chemically validate the area.

Hotspot TP106 – Elevated levels of Naphthalene and TPH

On the 25th of October 2021 the area of approximately 5.0m x 5.0m in the vicinity of TP106 underwent a hotspot removal with samples of the side and base of the excavation taken (TP106 Arising (materials within hotspot), TP106 N/E/S/W/B). Results of the chemical analysis concluded that the levels of determinants were such that further delineation of the hotspot was required in all lateral directions. The material excavated from TP106 was stockpiled in the same vicinity in order to help aerate the volatile materials.

On the 8th of November, the area again was further delineated in all directions apart from the base with samples taken with samples of the side and base of the excavation taken (TP106 Arising (materials within hotspot), TP106 N/E/S/W/B). Results of the chemical analysis concluded that the levels of determinants were such that further delineation of the hotspot was required in all lateral directions.



E3P was then informed that material in the east of the site in the vicinity of TP106 was subject to screening to remove the oversized elements for geotechnical reasoning and to ensure reduction of the volume by removal of the inert content. The material was then placed in the east of the site with soils validated within the MG-EAST samples denoted on Drawing 12-123-014 and in the above mentioned chemical report.

On the 2nd of December 6 samples were collected across the eastern sector of the site to the north of TP106. Results of the chemical analysis concluded that the levels of determinants were such that further samples were required to be taken to understand the extent of semi-volatile impact.

On the 16th of December, a further ten samples were collected from soils in situ. Results of the chemical analysis concluded that the levels of determinants were such that the impact to the area was extensive.

It was identified that plots within Plots 86-98, Apartment Block 2 and 204-214 where the above SVOC are identified as critical determinants; therefore, to mitigate risk to human health, a Visqueen Ultimate HC Block membrane was installed in accordance with the standards and guidelines as detailed within CIRIA 748. The extent of dwellings that will be constructed with a vapour membrane is indicated within the E3P Vapour Membrane Location Plan (Drawing 12-123-015).

Hotspot TP303 – Elevated levels of PAH, Asbestos, heavy metals

On the 18th of August 2021, the area of approximately 5.0m x 5.0m in the vicinity of TP303 underwent a hotspot removal with samples of the side and base of the excavation taken. Results of the chemical analysis concluded that the levels of determinants were such that further delineation of the hotspot was not required. The excavated material was placed below 1.00m beneath POS.

Hotspot TP215 – Elevated levels of PAH, Asbestos, Mercury, Naphthalene and TPH

On the 6th of October 2021 the area of approximately 5.0m x 5.0m in the vicinity of TP215 underwent a hotspot removal with samples of the side and base of the excavation taken (TP215 Arisings (materials within hotspot), TP215 N/E/S/W/B). Results of the chemical analysis concluded that the levels of determinants were such that further delineation of the hotspot was required. Speciated mercury analysis was undertaken, which identified elemental mercury.

On the 25th of October 2021, the area was further delineated in all directions with samples (TP215 Arisings (materials within hotspot), TP215 N/E/S/W/B) being taken. Results of the chemical analysis concluded that further assessment is required.

Excavated soils from TP215 were subject to screening to remove the oversized elements for geotechnical reasoning and to ensure reduction of the volume by removal of the inert content. Soils were then placed in the west of the site and chemically validated in situ under sample names MG-WEST denoted on Drawing 12-123-014 and in the above mentioned chemical report.

PID analysis

PID analysis was undertaken on the 27th of May 2022, which concluded no elevated values. All readings were recorded as 0ppm.

Further Investigation of Volatile Impacted Material (TP106, TP215, TP407, TP408)



E3P returned to site on the 2nd and 16th December 2021 and the 14th of February 2022 to sample the shallow soils across the areas in question to determine the extent of SVOCs, mercury and naphthalene. A total of 16 samples were taken across the eastern area (former steps and TP407, TP408 hotspots), and a total of 6 samples were taken across the western area (former scoreboard and TP215 hotspot). Mercury was speciated from the arisings at TP215, which was originally detected at 2.1 mg/kg of mercury. The speciation results have shown elemental mercury at 0.496 mg/kg, which is below the threshold of 1.2 mg/kg, and so a volatile mercury risk is not deemed present in the west of the site. All of the samples obtained from the east of the site had mercury values below 2.1 mg/kg and so based on the previous speciation result, it is considered there is no unacceptable risk from volatile mercury in the east of the site.

From the results and comparing locations to the development plan, it was recommended that within Plots 86-98, Apartment Block 2 and 204-214 where the above SVOC are identified as critical determinants, specialist vapour resistant membranes are included within the construction of the dwelling. We can be sure that the impact with a potential vapour pathway is specific to the area as soils were placed back insitu by Urban Regen in the location of origin.

RE-9 – EXCAVATION, BREAKING AND PROCESSING OF ALL ABOVE- AND BELOW-GROUND STRUCTURES

DATE OF WORKS UNDERTAKEN

Throughout

PHOTOGRAPHS

Plate 15-33

CHEMICAL TESTING

Site Won General Backfill

I2 Analytical Report 21-75361-1 – SW- MG-001-010

I2 Analytical Report 21-76937-1 – SW-MG 011-020

I2 Analytical Report 21-93140-1 - SW-MG 021-023

I2 Analytical Report 21-93983-1 - SW-MG 024-025

I2 Analytical Report 21-76950-1 - SW MG Stockpile 001-003

Site Won Generated 6F2

I2 Analytical Report 21-12408-1- Crush 001-003

I2 Analytical Report 21-15052-2 - Crush 004-006

GEOTECHNICAL TESTING

Site Won General Backfill

PSL Report PSL21/4007- SW-MG 101-103

PSL Report PSL21/4236 - SW-MG-104-106

PSL Report PSL21/6652 - SW-MG-007

Site Won Generated 6F2

PSL Report PSL21/7958 - CRUSH -002

OVERVIEW OF WORKS

Overview of Works

Prior to E3P's attendance to site all previous buildings and above-ground structures, areas of asphalt hardstanding and concrete slabs remained or were still in situ.



Removal of any relict foundations and concrete slabs moved west to east, with the area in the north-eastern corner last to be removed. All sub-structures were excavated using controlled mechanical techniques under the strict control of the Urban Regen Site Manager in full time supervision with E3P in part time supervision on a weekly basis.

The site was subject to a turnover to the top of natural stratum to ensure the full removal and excavation of all below-ground obstructions and relict foundations and slabs. This process allowed for the removal of any oversize materials and the identification of any previously unidentified areas of contamination. Oversized materials and concrete were stockpiled prior to crushing/processing to nominal 6F2 grading with chemical validation in accordance with the validation sampling protocol.

The majority of the Made Ground was granular with brick and concrete. Chemical analysis showed it was suitable to be used as crush.

Any steel re-enforcements present within the concrete hardstanding, or waste in the form of wood, scrap metal, plastic was removed prior to the crushing of demolition material stockpiles and allocated to skips for subsequent disposal.

The provided Urban Regen Depth of turnover drawing denotes the full extent of turnover to confirm removal of foundations and slabs.

E3P maintained a part time watching brief during the turning and processing of the Made Ground to audit and validate the site enabling works in addition to inspecting all materials turned over and identifying any previously unidentified contamination hotspots, including Asbestos Containing Materials (ACM).

Crush 005 and 006 was found to contain elevated levels of non-volatile PAHs, with crush 005 also containing elevated non-volatile TPHs C21-C35. The main exposure pathway for these determinants is dermal contact and ingestion, therefore this pathway will be broken as the material will be placed below hardstanding and will therefore not pose a risk to future end users.

RE-10 – DECOMMISSIONING OF ABSTRACTION BOREHOLE

DATE OF WORKS UNDERTAKEN

February 2022

PHOTOGRAPHS

N/A

CHEMICAL TESTING

NA

OVERVIEW OF WORKS

Background

A groundwater abstraction borehole was located in the north-eastern sector of the site. On-site observations confirmed near surface diameter of the steel casing at 0.24 m and an approximate depth of 63.00 m. The water in the well was at 16.34 m from the existing ground level surface. The top of the well at the existing ground level was circa 0.75 m above the remediation level. The top of the headworks casing was circa 0.45 m above ground level. The borehole presented a hazard in the form of an open hole that could create safety issues in regard to future site users of the proposed future development.



E3P proposed in 12-123-L7 that the borehole should be filled with a low permeability backfill. Backfill should be comprised of clean pea gravel with bentonite pellets will be placed in the top five metres to provide an extra seal as a precautionary measure. The annulus to the borehole will be sealed by pouring an in-situ concrete cap over the borehole to remove the potential for any pollution to enter the annulus and migrate vertically.

Overview of works

M&J drilling services attended the site on the 10th of February 2022 and encountered an obstruction at circa 1.50 m bgl comprised of brick and sandstone fill. Once cleared the well was dipped and found the well to be 68 m deep.

To fill the well M&J injected an OPC and pea gravel mix to approximately 5.00m bgl. From ground level to 5.00m bgl the well was filled with bentonite pellets.

In total three tons of OPC mix was used and 0.50 tons of gravel was used.

Decommission was completed by the end of the 14th of February 2022.

RE-11 – CUT-AND-FILLING OF MADE GROUND TO DEVELOPMENT LEVELS**DATE OF WORKS UNDERTAKEN**

Throughout

PHOTOGRAPHS

Plate 21-33

CHEMICAL TESTING

N/A

In order to provide the final development platforms there was a requirement to undertake a significant cut and filling process of Made Ground across the site. Excavated materials and imported materials were used to build final development levels.

Plots that were due to have VSC foundations were left 750 mm below the finished level, whilst gardens were finished to 450 mm below finished level.

Where the proposed enabling works levels required the current landform to be cut, extreme care was taken so as not to disturb the underlying stratum prior to the placement of the appropriate platform, in compliance with the E3P Geotechnical Specification. Where the development levels required material to be filled, site-derived Made Ground, imported natural CLAY and clayey SAND deposits were sorted in a controlled manner prior to replacement, in accordance with the requirements of the specification for the intended land use.

Verification testing in the form of non-nuclear density gauge (NNDG) and moisture condition value (MCV) testing was completed by E3P throughout the works. This was carried out both in situ and with bulk samples and subject to laboratory analysis to demonstrate compliance prior to the movement of material. The results were checked against the site derived criteria presented in the E3P geotechnical specification for the site.

All data and certificates are presented within Appendix VI of this report.

Urban Regen has produced an As-Built Survey of the site and is included within Appendix X.



RE-12 – CONSTRUCTION OF TEMPORARY WORKING PLATFORM**DATE OF WORKS UNDERTAKEN**

Throughout

PHOTOGRAPHS

Plate 28 - 33

GEOTECHNICAL TESTING

PSL21/7958 – Crush 002

OVERVIEW OF WORKS

Site-won-generated crushed material was utilised in the formation of a temporary working platform (piling mat). Where plots were to be prepared in a manner to facilitate Ground Improvement by Vibro Stone Column, a Temporary Working Platform was constructed. The specific design for such a platform was, as a minimum, comprised of the proof rolling of the sub-grade to ensure a CBR >3% and the placement of 300mm of certified 6F2 to be rolled and compacted to ensure a CBR >6%. The CBR results are included in Appendix III.

RE-13 – REPLACEMENT OF MATERIALS, GEOTECHNICAL ENGINEERING REQUIREMENTS**DATE OF WORKS UNDERTAKEN**

Throughout

PHOTOGRAPHS

Plate 25– 33

GEOTECHNICAL TESTING**Site Won Material**

PSL Report 4007 - SW-MG 101-103

PSL Report 4236 - SW-MG-104-106

PSL Report 6652 - SW-MG-007

PSL 7196 – TP402

Site Won Produced Crush

PSL Report 7958 - CRUSH 002

Imported cohesive material

MRN 4098-100

Imported granular material

PSL Report 1653

MRN 4287-55

OVERVIEW OF WORKS

Urban Regen has undertaken cut and fill of the site to development levels in the vicinity of plots due to be constructed using vibro stone columns. Site won general fill, imported cohesive and granular material was placed and compacted in 225 mm layers in accordance with the E3P geotechnical engineering specification. The site was capped with site won produced crush.

CBR results for the placement of imported material within roads and capping layers are presented in appendix VI of this report.



All -situ density testing using a calibrated Non Nuclear Density Gauge (NNDG) of materials placed and engineered were above the target of 95% as per the upfill specification within the E3P geotechnical specification. All materials were subject to chemical and geotechnical validation testing during the works. E3P can confirm that all NNDG results on all plots tested to date have been compacted to >95% and the site has been upfilled in accordance with the E3P geotechnical specification. Table 4.1 summarises all results.

It must be noted that the majority of the NNDG results have been in excess 100% of the maximum dry density which indicates that the in-situ compaction exceeds the design performance criteria than that being carried out in laboratory which is treated as the optimum criterion for satisfactory degree of soil compaction. Therefore, the soil results are acceptable in case compaction test results are over 100%. The CLAY deposits were compacted during an extended period of warm weather, lowering the moisture content of the soils which has therefore resulted in high compaction in excess 100% of the initial laboratory define maximum dry density.

To achieve the proposed Enabling Works Levels (EWLs), Urban Regen undertook a process of cut/fill works, including the careful selection of materials from within areas of reduced level excavation (cut) prior to placement in a manner that accords with the geotechnical engineering specification & contamination compliance criteria. Arisings from the foundations were re-used on site to build up levels.

Urban Regen had full-time supervision with E3P providing part-time supervision of the following:

- ✳ General cut/fill of natural and anthropogenic soils in accordance with the E3P geotechnical & contamination performance criteria (drawing provided in Appendix X);
- ✳ Management of all materials to maximise the retention of soils on site to ensure suitable development; and,
- ✳ CBR plate load tests to be completed on all roads and piling mats.
- ✳ Geotechnical testing of the site won material was undertaken for PSD, Dry Density, OMC and 4.5kg compaction tests.
- ✳ CBR tests were undertaken beneath roads and plots to ensure compaction of 5%.

Where infilling of areas was completed using materials with greater than 10% of 0.063 micron particles, this material was engineered to ensure <95% compaction. Testing results are available in Appendix VI.



TABLE 4.1 NNDG RESULTS

TEST NUMBER	PLOT NUMBER	DATE	COMPACTION	MATERIAL
1	1	18/11/21	101.6	CLAY
2	2		125.4	
3	3		97.2	
4	4		100	
5	5		95.10	
6	151	30/11/21	108.00	Clayey SAND
7	154		-389.7	
8	158		34.10	
9	46	21/04/22	118.00	Clayey SAND
10	101		93.70	
11	145		-115.70	
12	108		131.80	

RE-14 – PREPARATION OF GROUND FOR VIBRO-STONE COLUMNS WITHIN TREE INFLUENCE**DATE OF WORKS UNDERTAKEN**

Throughout

PHOTOGRAPHS

Plate 20 – 33

CHEMICAL TESTING

N/A

OVERVIEW OF WORKS

A tree influence drawing has been completed by a third party, Elluc, and a copy of such can be sought from the subcontractor. Plots in the vicinity of trees in areas of desiccated clay soils were required to be excavated to specific depths by the earthworks contractor, Urban Regen, and replaced with suitable materials in accordance with the E3P Specification. A copy of Urban Regen Depth of Turnover plan has been previously submitted and should be consulted. The ground has been prepared for ground Vibro Stone Columns by placing a piling mat upon all house plots that require VSC foundation solution.

CBRs were then completed to ensure 5% compaction for the piling rigs. The certificates for these are included within Appendix X.

Site won crush and granular Made Ground fill was deemed suitable for use as upfill materials where plots were due for a vibro stone column foundation solution by the piling contractor following the removal of any oversized brick or concrete. Stone columns in all plots scheduled for VSC will be formed with certified material which has been agreed with the NHBC by the piling contractor.

RE-16 – INVESTIGATION AND REMOVAL OF COMPRESSIBLE PEAT**DATE OF WORKS UNDERTAKEN**

The 18th of August 2021

PHOTOGRAPHS

Plate 24



Belle Vue

Remediation and Enabling Works Validation
August 2022

CHEMICAL TESTING

NA

OVERVIEW OF WORKS**Background**

During the original site investigation (February 2018), peat was identified within TP101 at a depth of 1.30-1.70m bgl located in the northeast of the site. The remediation strategy provided by E3P required further delineation prior to excavation from beneath all areas of sensitive infrastructure.

Overview of Works

On the 18th of August 2021 a mechanically excavated trial pit was completed in the vicinity of TP101 that extended to depths below 1.70 m bgl, with the aim to identify the potentially compressible peat identified in the original site investigation.

During the investigation on the 18th of August, peat was not identified above, at, or below the anticipated depth. Therefore, no further investigation was required.

During remediation works no other PEAT deposits were identified on site.

RE-17 – CHEMICAL VALIDATION OF THE ELECTRICAL SUBSTATION**DATE OF WORKS UNDERTAKEN**

Pre the 13th of August- the 18th of August

PHOTOGRAPHS

Plate 23

CHEMICAL TESTING

I2 Analytical Report 21-93984-1 Belle Vue 12-123.

OVERVIEW OF WORKS

During a site visit on the 13th of August 2021, it was noted that the electrical substation in the north east of the site had been removed down to slab level.

On the 18th of August a mechanically excavated trail pit was completed at the base of the slab where the former electrical substation stood. Samples were taken to determine any PCB contamination. Results from the chemical analysis concluded an absence of any impact with results below the laboratory LOD, therefore representing no chronic risk to human health or the wider environs and no further investigation was required.

RE-18 – IMPORTATION OF BULK FILL**DATE OF WORKS UNDERTAKEN**

Throughout

PHOTOGRAPHS

Plate 27 - 33

CHEMICAL TESTING

I2 Analytical Report 21-18938-1- *Clay Import 001*
I2 Analytical Report 21-25981-1 - *Clay Import 002 - 003*
I2 Analytical Report 21-29879-1 - *Class 6 Import 001-003*



Belle Vue**Remediation and Enabling Works Validation**

August 2022

GETECHNICALTESTING

Murray Rix Report MRN 4098/100 - Clay Import 101-102
Murray Rix Report MRN 4287/15 08 - Clay Import 103
PSL Report PSL22/1653 - Sand Import 201
Murray Rix Report MRN 4287/55 - Sand Import

OVERVIEW OF WORKS

Up-filling with imported bulk fill was undertaken across the site. Import for the site came from several sites, including Royle Road, Goldfinch Close and Black Lane outlined in Material Management Plan, Belle Vue Manchester, ref: 12-123-R4-4, dated February 2022 completed by E3P.

E3P undertook sampling of the imported bulk fill (Clay Import 001-003 and import 101-102, sand import and sand import 201) and 6F2 (Class 6 Import 001-003) samples for confirmation of use within site and were found to be suitable for use on-site. Imported samples did not contain any exceedances and were therefore deemed suitable for use (Drawing 12-123-012).

RE-19 – PREPARATION OF GARDEN FOR COVER SYSTEM**DATE OF WORKS UNDERTAKEN**

Throughout

PHOTOGRAPHS

NA

OVERVIEW OF WORKS

All gardens were prepared to 600 mm below finished level to allow the placement of the clean cover system. Levels of the gardens to regrade level were brought to the intended elevation with imported materials or site won Made Ground.

RE-20 – PROVISION OF SUBSOIL**DATE OF WORKS UNDERTAKEN**

Throughout

OVERVIEW OF WORKS

There was no suitable subsoil source at the site. As such, there will be a requirement for the import of subsoil under a Materials Management Plan on behalf of the developer.

RE-21 – PROVISION OF TOPSOIL**DATE OF WORKS UNDERTAKEN**

Throughout

OVERVIEW OF WORKS

No material that would be deemed suitable for use as topsoil is present on-site. As such, there will be a requirement for the import of topsoil under a Materials Management Plan on behalf of the developer.



5. POST REMEDIATION BUILD PHASE REQUIREMENTS

This document details the construction works that are required to ensure full compliance with the remediation Strategy, Regulatory Authorities, Building Control & Warranty Providers;

The following should be implemented during the build phase of the development:

- ✚ Laboratory testing of the imported topsoil and subsoil;
- ✚ Placement and chemical validation of imported topsoil and subsoil within all gardens; and,
- ✚ Installation and validation of ground gas protection measures.

The validation protocols are presented within the E3P Remediation and Enabling Works Strategy and are presented below.

5.1. PLACEMENT OF COVER SYSTEM

The Remediation and Enabling Works Strategy for the site, with respect to human health of the future site users includes the provision of a chemically suitable clean material to be installed in all garden and landscaped areas; the construction of the clean cover / placement of clean material shall consist of:

- ✚ 450 mm subsoil; and,
- ✚ 150 mm topsoil.

In accordance with the current requirements of the regulatory authorities, validation samples will be collected from all materials that are to be imported or re-used on site to confirm the proposed development will pose no unacceptable risk to human health or the wider environ.

Subsoil and topsoil shall be free of any deleterious materials, such as buildings materials, timber, plastics etc and conform to the requirements of BS 3882:2007.

Initial testing of site won sub-soil to classify its re-use on site has been completed as part of the remediation works undertaken. Therefore, no further analysis of sub-soil will be required to achieve the testing frequencies outlined within the remediation strategy and in the event of importation of additional material during construction.

Testing requirements for topsoil and sub-soil are presented in Table 5.1.



TABLE 5.1 SPECIFICATION FOR SOIL TESTING

MATERIAL USE	TESTING FREQUENCY	SUITE OF ANALYSIS
Subsoil Greenfield Source (450 mm Garden Cover)	1 Sample per 200 m ³	A/B/C/D
Subsoil Brownfield Source (450 mm Garden Cover)	1 Sample per 50 m ³	A/B/C/D
Topsoil Greenfield Source (150 mm Garden Cover)	1 Sample per 200 m ³	A/B/C/D
Topsoil Brownfield Source (150 mm Garden Cover)	1 Sample per 50 m ³	A/B/C/D
General Engineering Fill (Class 1 and 2 Soil)	1 Sample per 1000 m ³	A/B/C/D

5.1.1. PROCEDURE FOR PLACEMENT OF CHEMICALLY SUITABLE COVER SYSTEM

Garden and landscaped areas need to be backfilled with 450mm chemically validated subsoil, with 150mm topsoil overlaying this. Topsoil and subsoil are required to be confirmed as chemically suitable prior to placement.

The placement of 600 mm of clean material will be undertaken during the build phase works of the project.

The placement of subsoil and corresponding validation will be documented within the Garden Validation Letters (to be issued on completion of the contractor's works).

If proposed utilities are to be placed within the cover system, the clean cover should be placed prior to installation of these utilities.

If natural drift deposits are encountered, excavation can cease here.

E3P will collect photographic evidence of the placement of 150mm of certified topsoil and 450mm of subsoil on completion of construction works. This element will also be checked by the Building Control Officer as part of the site completion prior to issuing of a CML certificate.

The garden validation procedure is detailed in Table 5.2.



TABLE 5.2 GARDEN VALIDATION PROCEEDURE

PROCEDURE	METHOD
Chemical Validation	<p>Imported sub-soils and topsoil will need to be chemically analysed to confirm suitability for use with the proposed cover system prior to installation and completion of the garden systems.</p> <p>E3P will issue an email to the Countryside Properties Development Engineer with an assessment of the chemical suitability of both sub soils and top soils.</p> <p>If acceptable the materials can be installed to the required depth at which time the plot will be deemed complete following a validation procedure by a suitability qualified E3P engineer.</p>
Trial Holes	<p>Trial holes are deemed necessary for all plots given that the 600 mm cover system will need to be placed on each plot during the build phase.</p>
Validation	<p>E3P will attend site and measure the thickness of the cover system, providing an assessment to the site manager whilst on site. Photographic evidence will be taken of the cover system, demonstrating the depth and materials which make up the cover system and the location of the trial hole in relation to the plot.</p>
Validation Certificate	<p>E3P will issue a plot specific validation certificate to demonstrate that the required subsoil and topsoil has been placed in each garden, along with the chemical analysis.</p>
Completion Report	<p>Upon completion of all garden and landscaped areas within the development, a Completion Report will be issued providing the confirmation that all remediation requirements have been achieved.</p>

Plate 1 provides an example of a garden validation photographs that will be required for each plot.



PLATE 1 **EXAMPLE PLOT COVER SYSTEM VALIDATION**

Plot No: 70		
Depth of Strata (m bgl)	0.00-0.15	Validated TOPSOIL
	0.15-0.60	Validated SUBSOIL
Depth of Cover System Materials		Depth of Cover System Materials
		
Depth of Cover System at Ground Level		Depth of Cover System in Relation to Plot
		



5.2. GROUND GAS PROTECTION MEASURES

Ground gas monitoring to date suggests that the site will fall into the bracket for Characteristic Situation 2 / Amber 1 which will require specialist mitigation measures to be constructed in accordance with BS8485 (2015)+A1(2019).

Due to further testing on site highlighting exceedances of naphthalene and other SVOCs it has been recommended that within Plots 86-98, Apartment Block 2 and 204-214 where SVOCs are identified as critical determinants, specialist vapour resistant membranes are included within the construction of the dwelling in addition to any proposed ground gas membranes, outlined in Drawing 12-123-015.

The validation inspection is to include the items that are detailed within Table 5.3.

TABLE 5.3 GROUND GAS MITIGATION MEASURES VALIDATION ITEMS

INSPECTION	METHOD
Product Verification	Confirmation that suitable products have been installed to consist of photographs of product types, labels on packaging and delivery tickets.
Wall Cavity Inspection	Confirmation that gas membrane spans the external wall cavity above the periscopic vents.
General Condition	The membrane is to be inspected to ensure there are no tears, punctures or rips.
Jointing	The engineer is to check the overlaps between membranes are correctly sealed with sufficient overlaps.
Service Entry Points	Verification of the presence of preformed tophats sealed to the pipe and membrane as per the construction detail.
Passive Venting Systems	The engineer should verify the presence of vents at 2m centres on at least 3 of the external walls. Verification of the stone venting layer and presence of pipes to be supplied by photographic records from site.

Examples of gas membrane verification photographs provided in Plate 2.

It should be noted that these are for illustrative purposes only as each site will have a site-specific gas membrane specification.



PLATE 2 EXAMPLE GAS MEMBRANE VERIFICATION

Plot – 236

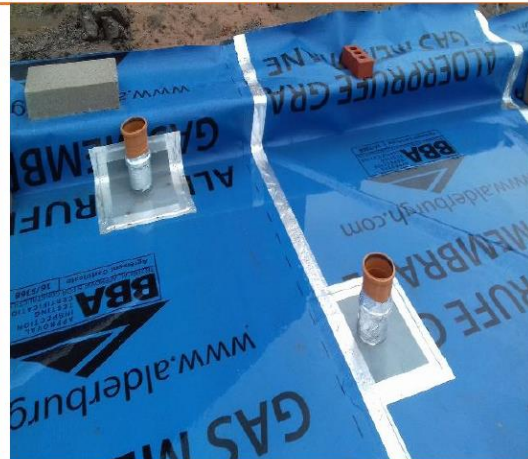
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



5.3. POTABLE WATER SUPPLY – CONTAMINANT ASSESSMENT CRITERIA

Table 5.4 provides a summary of the threshold concentrations that must not be exceeded within the remediated ground at pipeline depth in order to PE pipe works to be acceptable for the proposed development.

TABLE 5.4 PIPELINE SELECTION PE THRESHOLD CONCENTRATIONS

CONTAMINANT GROUP	PE-THRESHOLD ^A	MAXIMUM PERMISSIBLE CONCENTRATION AT PROPOSED PIPELINE DEPTH ^A	MAXIMUM PERMISSIBLE SITE CONCENTRATION ^A
Total VOC	0.5	N/A	N/A
Total BTEX And MTBE	0.1	N/A	N/A
Total SVOCs (Excluding PAH and those substances marked with an *)	2	N/A	< 0.3
EC5-EC10 Aliphatic and Aromatic Hydrocarbons	2	< 0.1	< 0.1
EC10-EC16- Aliphatic and Aromatic Hydrocarbons	10	5.7	5.7
EC16-EC40 Aliphatic and Aromatic Hydrocarbons	500	49	149
Phenols (From SVOC Analysis)*	2	< 0.3	< 0.3
Cresols and Chlorinated Phenols (From SVOC Analysis)	2	< 0.3	< 0.3

Notes

A. All concentrations in mg/kg.



6. CONCLUSION

The remediation elements identified within the approved Remediation and Enabling Works Strategy have been completed with validation testing confirming that the works have been completed to the required standard.

As part of the on-going construction works the developer will be required to construct and validate the items listed below in strict accordance with the requirements of the regulatory authorities, as documented in detail within this report.

- ✿ Installation and validation of CS2 / Amber 1 ground gas protection measures within all dwellings.
- ✿ SVOC resistant membranes in plots 86-98, Apartment Block 2 and 204-214
- ✿ Placement of clean subsoil and topsoil in all gardens and soft landscaped areas must be a minimum of 600 mm or natural ground (whichever is the shallower).
- ✿ Independent validation of the cover system by a suitably qualified E3P engineer.
- ✿ Provision a suitable water supply infrastructure.

END OF REPORT



APPENDIX I

LIMITATIONS

1. This report and its findings should be considered in relation to the terms of reference and objectives agreed between E3P and the Client as indicated in Section 1.2.
2. For the work, reliance has been placed on publicly available data obtained from the sources identified. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information it has been assumed it is correct. No attempt has been made to verify the information.
3. This report has been produced in accordance with current UK policy and legislative requirements for land and groundwater contamination which are enforced by the local authority and the Environment Agency. Liabilities associated with land contamination are complex and requires advice from legal professionals.
4. During the site walkover, reasonable effort has been made to obtain an overview of the site conditions. However, during the site walkover, no attempt has been made to enter areas of the site that are unsafe or present a risk to health and safety, are locked, barricaded, overgrown, or the location of the area has not been made known or accessible.
5. Access considerations, the presence of services and the activities being carried out on the site limited the locations where sampling locations could be installed and the techniques that could be used.
6. Site sensitivity assessments have been made based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.
7. Where mention has been made to the identification of Japanese Knotweed and other invasive plant species and asbestos or asbestos-containing materials, this is for indicative purposes only and do not constitute or replace full and proper surveys.
8. The executive summary, conclusions and recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.
9. E3P cannot be held responsible for any use of the report or its contents for any purpose other than that for which it was prepared. The copyright in this report and other plans and documents prepared by E3P is owned by them and no such plans or documents may be reproduced, published or adapted without written consent. Complete copies of this may, however, be made and distributed by the client as is expected in dealing with matters related to its commission. Should the client pass copies of the report to other parties for information, the whole report should be copied, but no professional liability or warranties shall be extended to other parties by E3P in this connection without their explicit written agreement there to by E3P.
10. New information, revised practices or changes in legislation may necessitate the re-interpretation of the report, in whole or in part.



APPENDIX II

GLOSSARY

TERMS

ACM	Asbestos-containing material	MMP	Materials management plan
ADS	Acoustic design statement	ND	Not detected
AST	Above-ground storage tank	NDP	Nuclear density probe
BGS	British Geological Survey	NMP	Noise management plan
BSI	British Standards Institute	NPSE	Noise policy statement for England
BTEX	Benzene, toluene, ethylbenzene, xylenes	NR	Not recorded
CA	Coal Authority	PAH	Polycyclic aromatic hydrocarbon
CBR	California bearing ratio	PCB	Polychlorinated biphenyl
CIEH	Chartered Institute of Environmental Health	PI	Plasticity index
CIRIA	Construction Industry Research Association	PID	Photo ionisation detector
CLEA	Contaminated land exposure assessment	POS	Public open space
CML	Council of Mortgage Lenders	PPE	Personnel protective equipment
CoC	Contaminants of concern	ProPG	Professional practice guidance
CSM	Conceptual site model	QA	Quality assurance
DNAPL	Dense non-aqueous phase liquid (chlorinated solvents, PCB)	SGV	Soil guideline value
DWS	Drinking water standard	SPH	Separate-phase hydrocarbon
EA	Environment Agency	SPT	Standard penetration test
EQS	Environmental quality standard	SVOC	Semi-volatile organic compound
FFL	Finished floor level	TPH	Total and speciated petroleum hydrocarbon
GAC	General assessment criteria	TPH CWG	Total Petroleum Hydrocarbon (Criteria Working Group)
GL	Ground level	UKWIR	United Kingdom Water Infrastructure Risk
GSV	Gas screening value	UST	Underground storage tank
HCV	Health criteria value	VCC	Vibro-concrete column
ICSM	Initial conceptual site model	VOC	Volatile organic compound
LEL	Lower explosive limit	VRSC	Vibro-replacement stone columns
LMRL	Lower method reporting limit	VSC	Vibro-stone columns
LNAPL	Light non-aqueous phase liquid (petrol, diesel, kerosene)	WHO	World Health Organisation
MCV	Moisture condition value	WRAP	Waste and Resources Action Programme
MIBK	Methyl isobutyl ketone	WTE	Water table elevation



Belle Vue**Remediation and Enabling Works Validation**

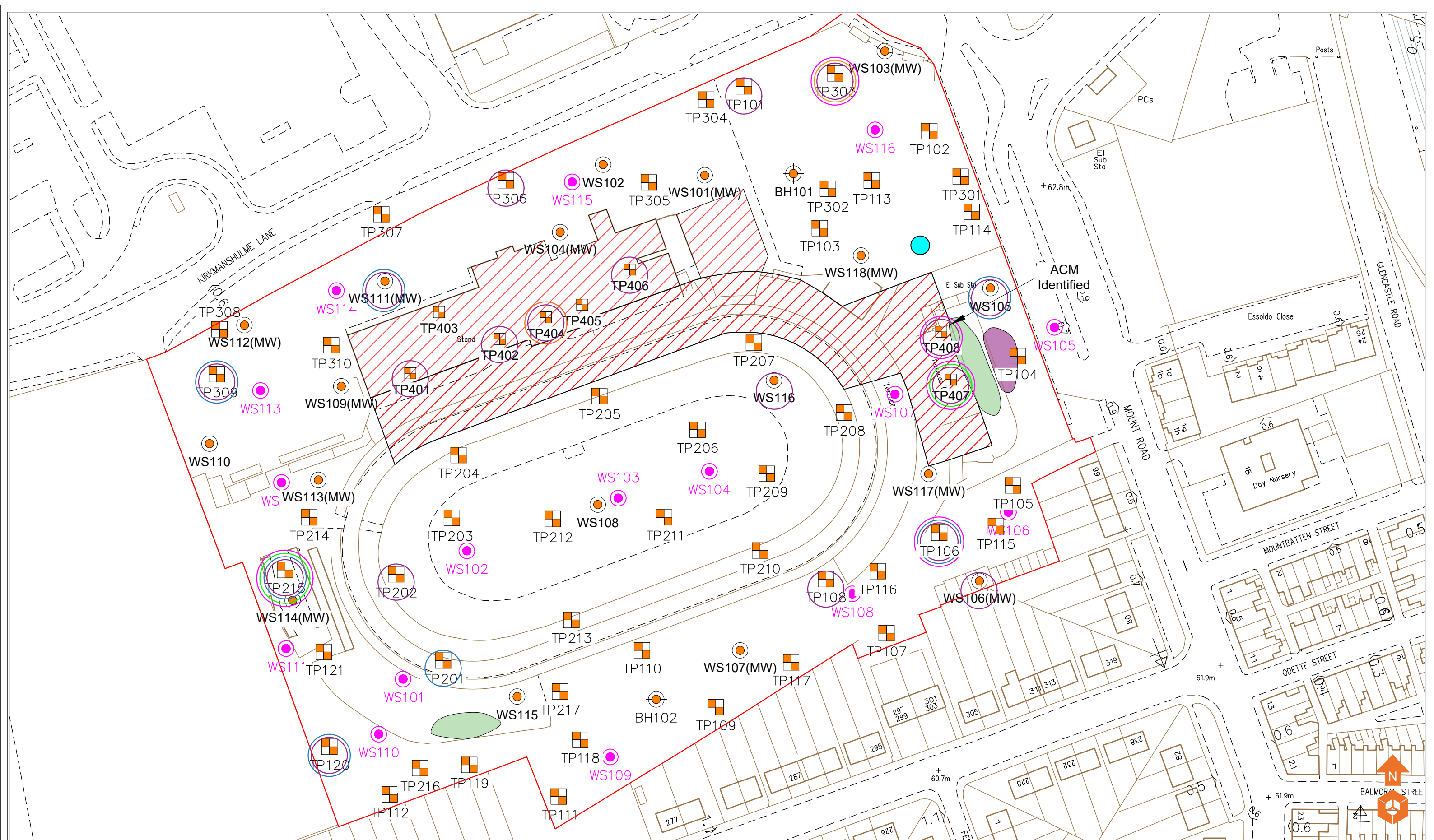
July 2022

m	Metres	ppm	Parts per million
km	Kilometres	mg/m³	Milligram per metre cubed
% v/v	Percent volume in air	m bgl bgl	Metres below ground level
mb	Millibars (atmospheric pressure)	m bcl	Metre below cover level
l/hr	Litres per hour	mAOD	Metres above ordnance datum (sea level)
µg/l	Micrograms per litre (parts per billion)	kN/m²	Kilonewtons per metre squared
ppb	Parts per billion	µm	Micrometre
mg/kg	Milligrams per kilogram (parts per million)	SSRT	Site Specific Remediation Target
PSD	Particle Size Distribution	DD	Dry Density
CL:AIRE	Contaminated Land: Applications in Real Environments	Mc	Moisture Content
ρ	Bulk Density	GPR	Ground Penetrating Radar
NDP	Nuclear Density Probe	FFL	Finished Floor Level
LEL	Lower Explosive Limit	UKWIR	UK Water Industry Research
CIRIA	Construction Industry Research and Information Association	LOD	Limit of Detection



APPENDIX III

DRAWINGS



Location Symbols					Exceedances				
	Approximate Window Sample Probehole Location		Approximate Window Sample Probehole Location with Install			Elevated Heavy Metals and non volatile PAHs identified		Elevated Mercury Identified	
	Approximate Trial Pit Location		Approximate Cable Percussive Borehole Location			Asbestos Identified		TPH C16-C35	
	Approximate DB Window Sample Probehole Location		Approximate Trial Pit Location			Elevated Volatile organic compounds and TPH C5-C16 Identified		Area Not Investigated	
						Area of Japanese Knotweed		Area of Fly Tipping	
						Abstraction Boreholes			

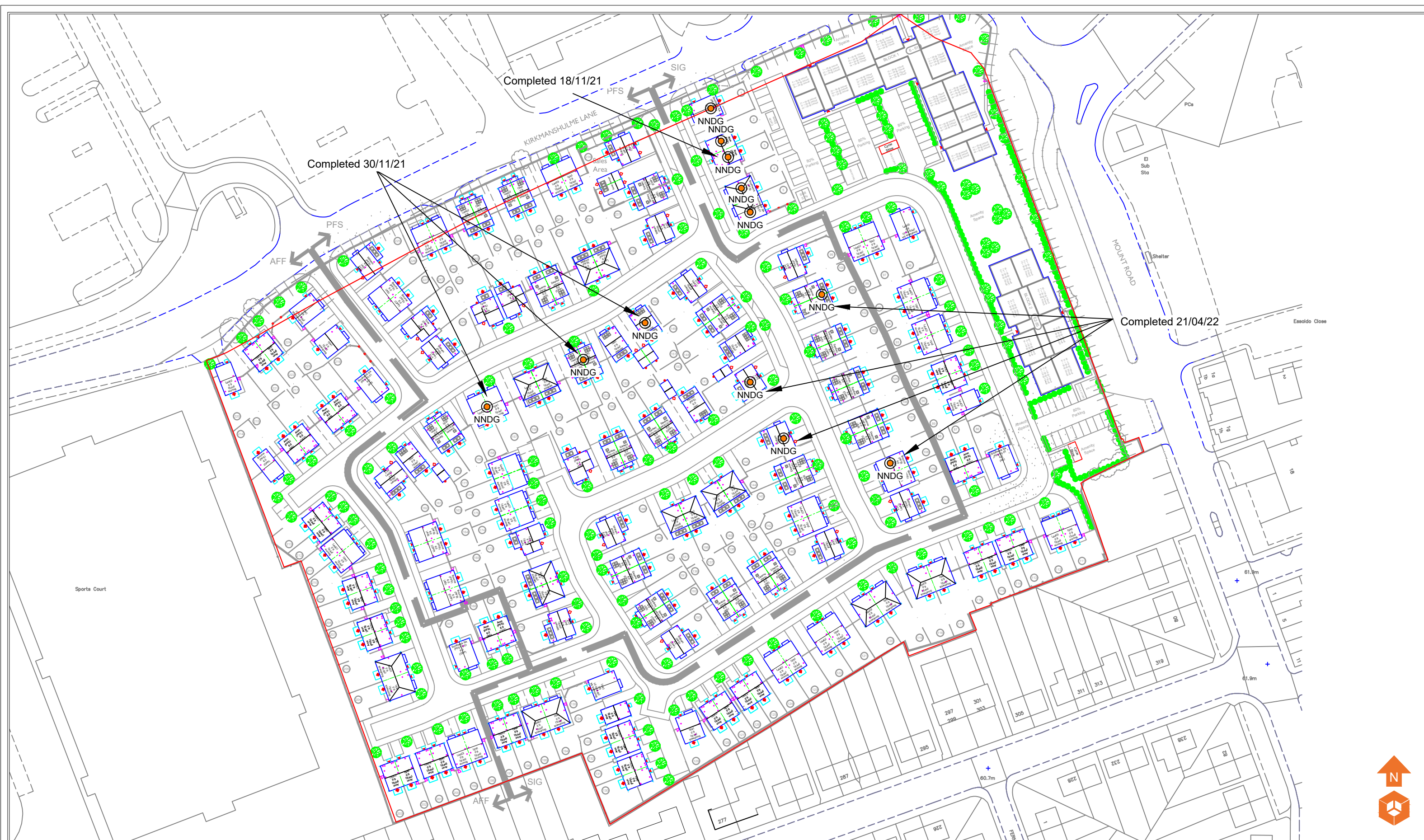
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P1	REVC	23.06.2021	CB	OJ
P1	REVB	06.01.2021	LM	SE
P1	REVA	04.01.2021	HM	SE
Phase	Issue	Date	Drawn	Checked

Client:	
Countryside Properties	
Job Title:	
Belle Vue Stadium	

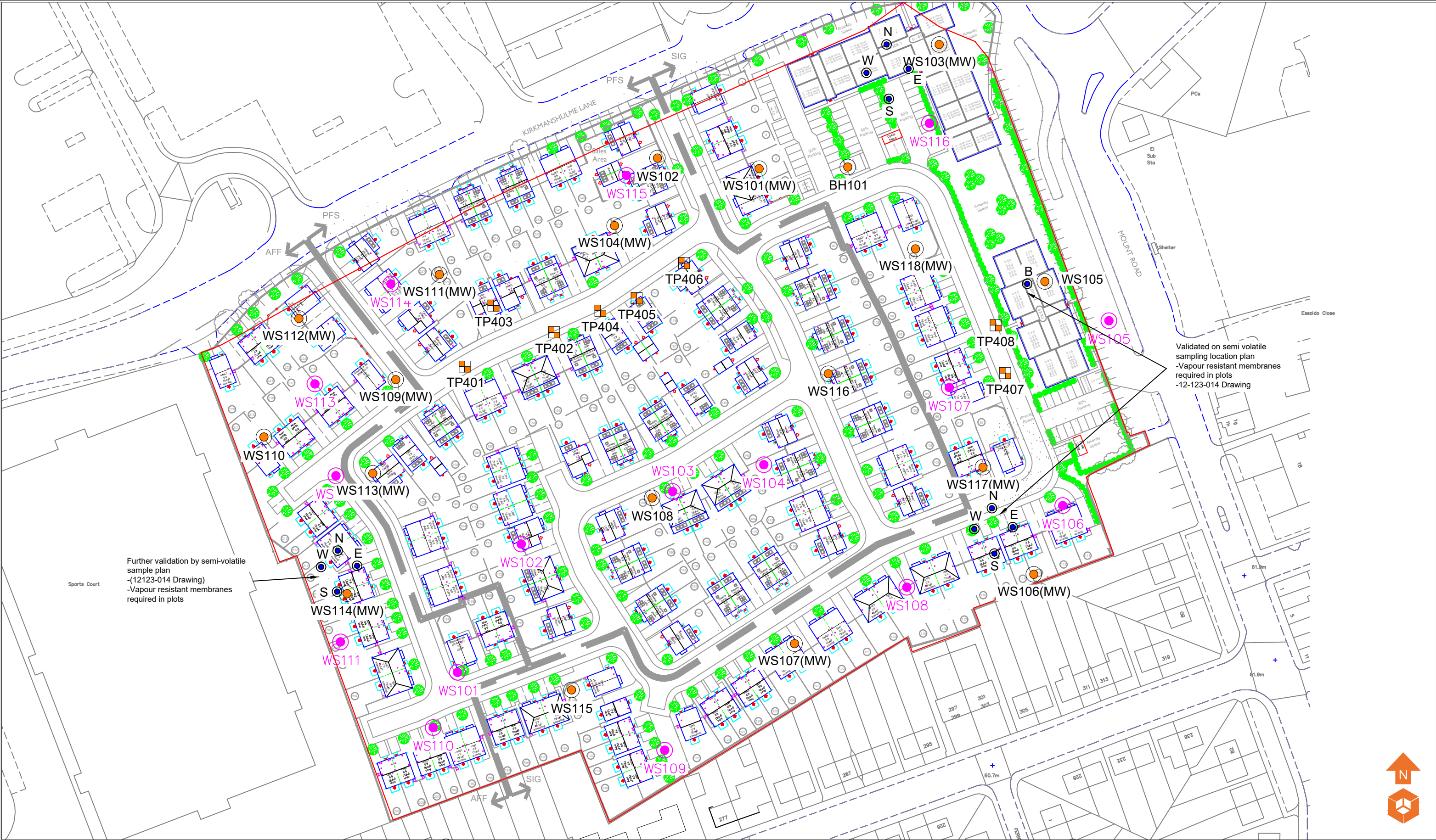
Job No:	
12-123	
Drawing No:	
010	
Date:	
11.10.2021	
Scale:	
NTS	
Drawing Title:	
Remediation Issues Plan	

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E-mail: info@e3p.co.uk
Website: www.e3p.co.uk

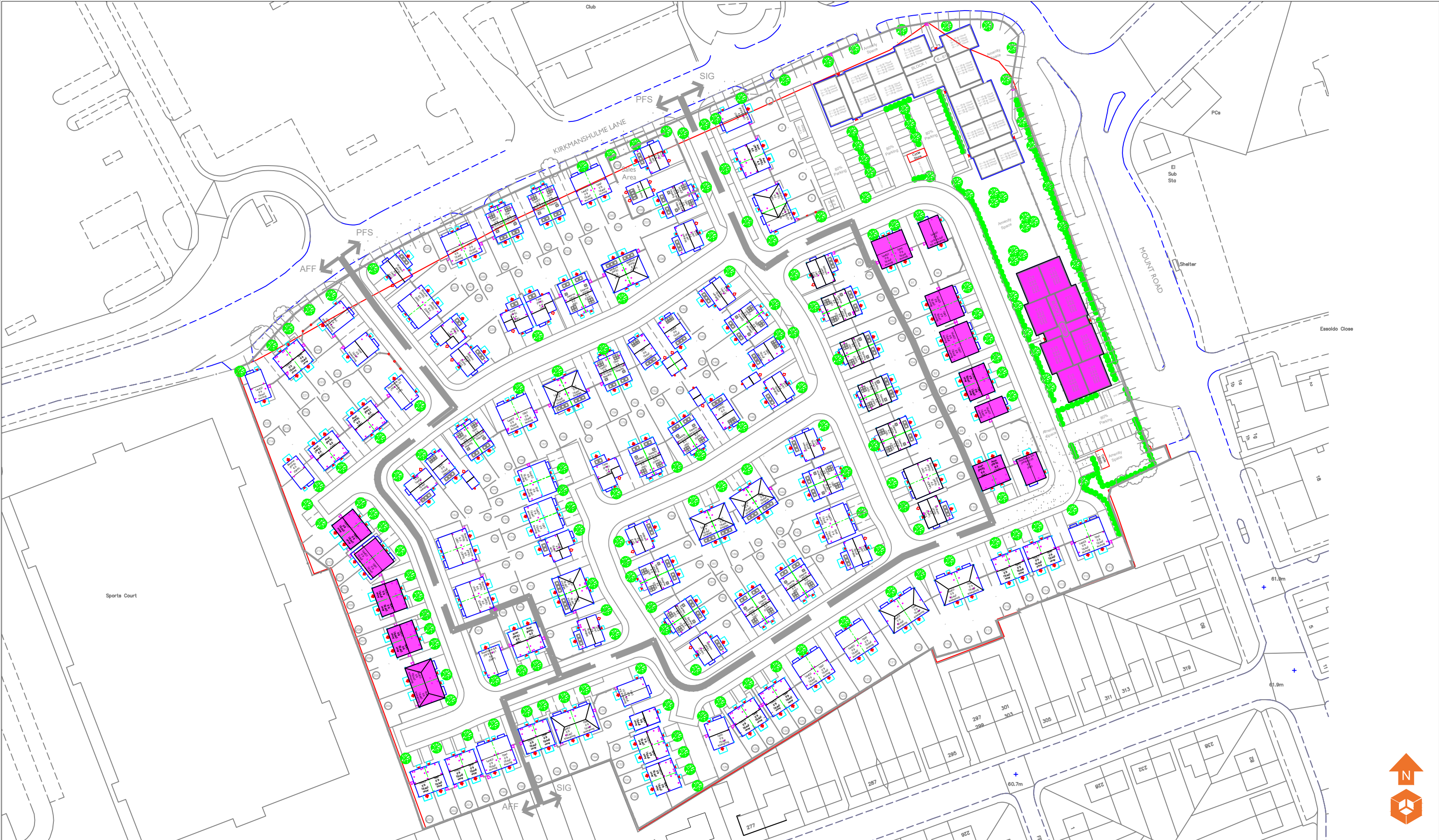
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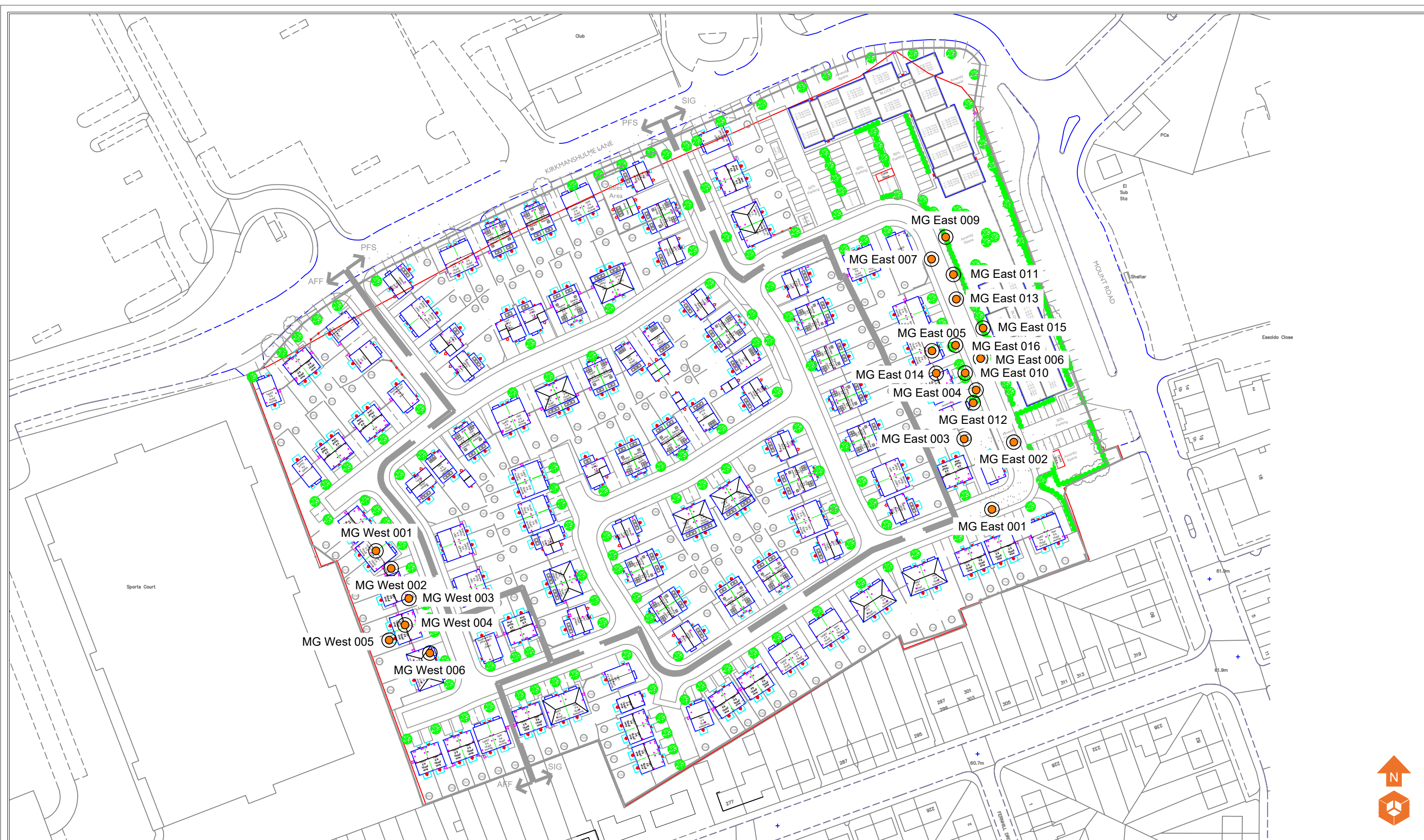
<div>Location Symbols</div> <div><div><div></div><div></div></div><div>RW 13.11.2021 Plot 1-5 - Passed</div></div>	<div>Notes:</div>					<div>Client:</div> <div>Countryside Properties</div>	<div>Job No:</div> <div>12-123</div>	<div>Date:</div> <div>18.07.2022</div>	<div><div><div></div><div>e3p</div></div><div>Environmental Engineering Partnership Ltd Taylor Road, Trafford Park Urmston, Manchester, M41 7JQ Tel: 0161 707 9612 E-mail: info@e3p.co.uk Website: www.e3p.co.uk</div></div>														
							<div>Drawing No:</div> <div>022</div>	<div>Scale:</div> <div>NTS</div>															
	<table><tr><td>P1</td><td>REVB</td><td>18.07.2022</td><td>CB</td><td>OJ</td></tr><tr><td>P1</td><td>REVA</td><td>12.07.2022</td><td>EB</td><td>OJ</td></tr><tr><td>Phase</td><td>Issue</td><td>Date</td><td>Drawn</td><td>Checked</td></tr></table>					P1	REVB	18.07.2022		CB	OJ	P1	REVA	12.07.2022	EB	OJ	Phase	Issue	Date	Drawn	Checked	<div>Job Title:</div> <div>Belle Vue Stadium</div>	<div>Drawing Title:</div> <div>NNDG Plan</div>
P1	REVB	18.07.2022	CB	OJ																			
P1	REVA	12.07.2022	EB	OJ																			
Phase	Issue	Date	Drawn	Checked																			



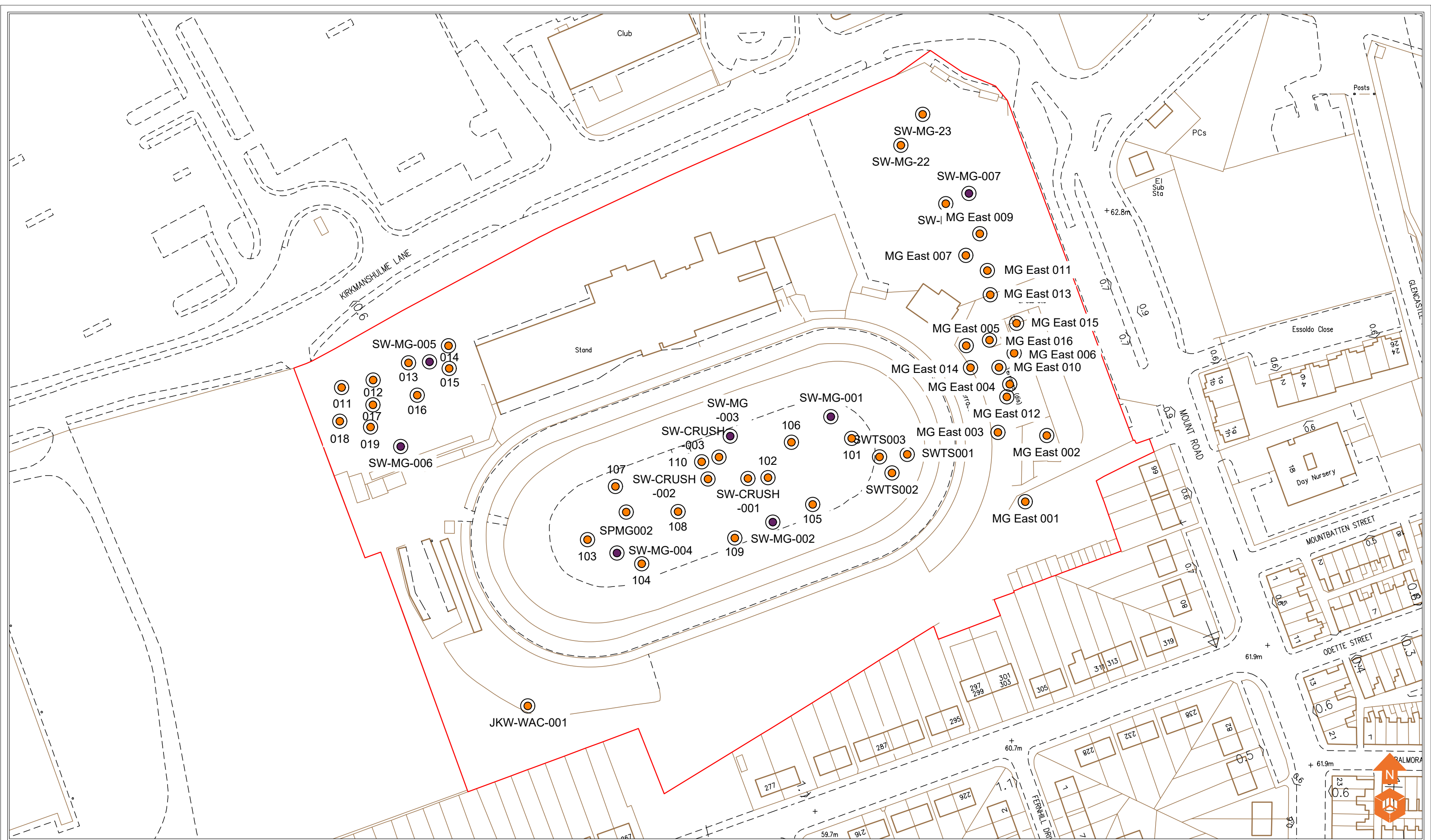
<div>Location Symbols</div> <div><div></div> RW 13.11.2021 Plot 1-5 - Passed</div>	<div>Notes:</div>					<div>Client:</div> <div>Countryside Properties</div>	<div>Job No:</div> <div>12-123</div>	<div>Date:</div> <div>12.07.2022</div>	<div><div></div><div>e3p</div></div> <div>Environmental Engineering Partnership Ltd Taylor Road, Trafford Park Urmston, Manchester, M41 7JQ Tel: 0161 707 9612 E-mail: info@e3p.co.uk Website: www.e3p.co.uk</div>									
							<div>Drawing No:</div> <div>023</div>	<div>Scale:</div> <div>NTS</div>										
	<table><tr><td>P1</td><td>REVA</td><td>12.07.2022</td><td>EB</td><td>OJ</td></tr><tr><td>Phase</td><td>Issue</td><td>Date</td><td>Drawn</td><td>Checked</td></tr></table>					P1	REVA	12.07.2022		EB	OJ	Phase	Issue	Date	Drawn	Checked	<div>Job Title:</div> <div>Belle Vue Stadium</div>	<div>Drawing Title:</div> <div>Hotspot Validation Sample Plan</div>
P1	REVA	12.07.2022	EB	OJ														
Phase	Issue	Date	Drawn	Checked														



<div>Vapour Membrane</div> <div><div></div> Vapour Membrane Required</div>	Notes:					Client:	Countryside Properties	Job No:	12-123	Date:	03.05.2022	<div><div></div>e3p</div> <div>Environmental Engineering Partnership Ltd Taylor Road, Trafford Park Urmston, Manchester, M41 7JQ Tel: 0161 707 9612 E-mail: info@e3p.co.uk Website: www.e3p.co.uk</div>	
								Drawing No:	015	Scale:	NTS		
						Job Title:	Belle Vue Stadium	Drawing Title:		Vapour Membrane Location Plan			The client must not amend any drawing, design or other intellectual property produced by E3P Ltd without permission in writing from E3P Ltd in advance of any amendments being made. In the event that such written permission is not obtained in advance of the amendments being made, E3P Ltd shall not be liable for any damage and/or losses occurring as a result of the amended drawing, design or intellectual property.
	P1	REVB	03.05.2022	LM	OJ								
	P1	REVA	25.04.2022	HM	SE								
	Phase	Issue	Date	Drawn	Checked								



<div>Location Symbols</div> <div><div></div>Approximate Sample Location</div>	<div>Notes:</div>					<div>Client:</div> <div>Countryside Properties</div>	<div>Job No:</div> <div>12-123</div>	<div>Date:</div> <div>27.04.2022</div>	<div><div><div></div></div>e3p</div> <div>Environmental Engineering Partnership Ltd Taylor Road, Trafford Park Urmston, Manchester, M41 7JQ Tel: 0161 707 9612 E-mail: info@e3p.co.uk Website: www.e3p.co.uk</div>
							<div>Drawing No:</div> <div>014</div>	<div>Scale:</div> <div>NTS</div>	
	<div>P1 P1</div>	<div>REVB REVA</div>	<div>27.04.2022 23.02.2022</div>	<div>HM EB</div>	<div>OJ GC</div>	<div>Job Title:</div> <div>Belle Vue Stadium</div>	<div>Drawing Title:</div> <div>Semi-Volatile Impact Sampling Plan</div>		
	<div>Phase</div>	<div>Issue</div>	<div>Date</div>	<div>Drawn</div>	<div>Checked</div>				



Location Symbols

- Approximate Sample Location
- Approximate Geotechnical Sample Location

Notes:

P1	REVE	21.12.2021	HM	GC
P1	REVC	07.12.2021	EB	GC
P1	REVC	24.09.2021	HM	GC
P1	REVB	18.08.2021	EB	GC
P1	REVA	24.05.2021	HM	GC
Phase	Issue	Date	Drawn	Checked

Client:

Countryside Properties

Job Title:

Belle Vue Stadium

Job No:

12-123

Drawing No:

012

Drawing Title:

Sampling Location Plan

Date:

21.12.2021

Scale:

NTS

Environmental Engineering Partnership Ltd
Taylor Road, Trafford Park
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E-mail: info@e3p.co.uk
Website: www.e3p.co.uk

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APPENDIX IV CHEMICAL TESTING RESULTS



Olivia Jackson

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Taylor Road
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Manchester
M41 7JQ

e: ojackson@e3p.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404

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e: reception@i2analytical.com

Analytical Report Number : 21-75361

Project / Site name:	Belle Vue Stadium	Samples received on:	17/05/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	17/05/2021
Your order number:	12-123-JO-G	Analysis completed by:	24/05/2021
Report Issue Number:	1	Report issued on:	24/05/2021
Samples Analysed:	10 leachate samples - 10 soil samples		

Signed:

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Preliminary reports provided at the request of the client should be considered as incomplete and have not been through the complete quality control procedure.

Results contained in preliminary reports may be subject to change and therefore should not be used as a basis for decision making, except at the risk of the client.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.

Application of uncertainty of measurement would provide a range within which the true result lies.

An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-75361
Project / Site name: Belle Vue Stadium
Your Order No: 12-123-JO-G

Lab Sample Number				1873224	1873225	1873226	1873227	1873228
Sample Reference				MG-101	MG-102	MG-103	MG-104	MG-105
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	7.1	14	11	14	15
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.40

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	8.3	8.0	8.4	8.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	510	630	520	600	700
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.047	0.052	0.023	0.053	0.069
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	93	100	45	110	140
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	46.6	52.0	22.7	53.4	69.1
Sulphide	mg/kg	1	MCERTS	25	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphur	mg/kg	50	MCERTS	310	360	260	310	360

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.30	0.43	< 0.05	0.62	0.58
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.93	< 0.05	0.53	0.24
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.58	< 0.05	0.37	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.73	5.0	0.55	2.4	1.3
Anthracene	mg/kg	0.05	MCERTS	< 0.05	1.1	< 0.05	0.63	0.27
Fluoranthene	mg/kg	0.05	MCERTS	1.3	6.0	1.1	2.8	2.0
Pyrene	mg/kg	0.05	MCERTS	1.4	5.7	1.2	2.6	2.0
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.73	2.8	0.55	1.2	1.0
Chrysene	mg/kg	0.05	MCERTS	0.63	2.0	0.68	1.0	0.80
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.65	2.1	0.83	1.1	0.91
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.45	1.5	0.23	0.73	0.67
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.74	2.5	0.62	1.2	0.89
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.35	1.2	0.34	0.49	0.55
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.36	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.35	1.2	0.35	0.52	0.49

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	7.59	33.5	6.45	16.2	11.7
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.4	13	16	14	11
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	12	22	34	30	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	34	33	36	32
Lead (aqua regia extractable)	mg/kg	1	MCERTS	39	63	56	49	45
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	10	25	37	35	30
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	48	79	100	90	93

Analytical Report Number: 21-75361
 Project / Site name: Belle Vue Stadium
 Your Order No: 12-123-JO-G

Lab Sample Number				1873224	1873225	1873226	1873227	1873228
Sample Reference				MG-101	MG-102	MG-103	MG-104	MG-105
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	5.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	3.1	33	17	12	17
TPH (C21 - C35)	mg/kg	1	MCERTS	50	59	76	22	25
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	11	18	< 10	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	55	110	110	36	44

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-75361
Project / Site name: Belle Vue Stadium
Your Order No: 12-123-JO-G

Lab Sample Number				1873229	1873230	1873231	1873232	1873233
Sample Reference				MG-106	MG-107	MG-108	MG-109	MG-110
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	11	14	13	16
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	8.0	8.4	8.2	7.7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1400	1000	420	540	660
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.33	0.30	0.048	0.045	0.13
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	660	600	96	90	260
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	329	299	48.0	45.1	132
Sulphide	mg/kg	1	MCERTS	2.6	< 1.0	< 1.0	< 1.0	2.4
Total Sulphur	mg/kg	50	MCERTS	660	400	200	260	340

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.35	< 0.05	< 0.05	0.22	0.69
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.28
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.25
Phenanthrene	mg/kg	0.05	MCERTS	1.1	0.34	< 0.05	0.89	1.7
Anthracene	mg/kg	0.05	MCERTS	0.23	0.35	< 0.05	0.21	0.32
Fluoranthene	mg/kg	0.05	MCERTS	1.9	0.67	0.60	1.6	3.9
Pyrene	mg/kg	0.05	MCERTS	1.7	0.67	0.58	1.4	3.9
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.1	0.36	0.42	0.88	2.4
Chrysene	mg/kg	0.05	MCERTS	0.79	0.24	0.29	0.74	1.9
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.3	0.33	0.31	0.69	3.3
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.34	0.22	0.19	0.54	1.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.0	0.45	0.39	0.78	2.6
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.57	0.20	< 0.05	0.48	1.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.60	0.22	< 0.05	0.45	1.8

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	10.9	4.05	2.78	8.86	25.5
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	12	9.2	11	17
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30	25	24	25	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	54	26	21	28	35
Lead (aqua regia extractable)	mg/kg	1	MCERTS	53	20	20	32	46
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31	31	28	30	30
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	140	92	64	75	110

Analytical Report Number: 21-75361
 Project / Site name: Belle Vue Stadium
 Your Order No: 12-123-JO-G

Lab Sample Number				1873229	1873230	1873231	1873232	1873233
Sample Reference				MG-106	MG-107	MG-108	MG-109	MG-110
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons								
TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	8.2	3.7	< 1.0	12	21
TPH (C21 - C35)	mg/kg	1	MCERTS	17	14	< 1.0	14	46
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	27	20	< 10	28	68

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-75361
Project / Site name: Belle Vue Stadium

Your Order No: 12-123-JO-G

Lab Sample Number				1873897	1873898	1873899	1873900	1873901
Sample Reference				MG-101	MG-102	MG-103	MG-104	MG-105
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	8.0	8.1	8.1	8.1	8.0
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1	ISO 17025	6.9	< 1.0	1.5	< 1.0	< 1.0
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	< 0.4	< 0.4	2.1	1.2	2.3
Copper (dissolved)	µg/l	0.7	ISO 17025	29	23	25	25	15
Lead (dissolved)	µg/l	1	ISO 17025	1.5	1.8	2.0	< 1.0	< 1.0
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	3.7	2.4	3.7	3.0	3.1
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	36	11	13	11	9.4



Analytical Report Number: 21-75361
Project / Site name: Belle Vue Stadium

Your Order No: 12-123-JO-G

Lab Sample Number				1873897	1873898	1873899	1873900	1873901
Sample Reference				MG-101	MG-102	MG-103	MG-104	MG-105
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

*U/S due to high variances between chromium (hexavalent) and chromium (dissolved) caused by method differences.



Analytical Report Number: 21-75361
Project / Site name: Belle Vue Stadium

Your Order No: 12-123-JO-G

Lab Sample Number				1873902	1873903	1873904	1873905	1873906
Sample Reference				MG-106	MG-107	MG-108	MG-109	MG-110
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	7.9	7.9	8.1	8.0	8.1
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1	ISO 17025	5.8	< 1.0	1.7	< 1.0	< 1.0
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	U/S*	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.0	0.7	1.0	0.7	0.4
Copper (dissolved)	µg/l	0.7	ISO 17025	18	16	15	22	16
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	1.8	< 1.0
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	2.9	2.4	2.4	3.0	1.6
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	11	9.4	11	9.4	10



Analytical Report Number: 21-75361
Project / Site name: Belle Vue Stadium

Your Order No: 12-123-JO-G

Lab Sample Number				1873902	1873903	1873904	1873905	1873906
Sample Reference				MG-106	MG-107	MG-108	MG-109	MG-110
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/05/2021	14/05/2021	14/05/2021	14/05/2021	14/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

*U/S due to high variances between chromium (hexavalent) and chromium (dissolved) caused by method differences.

Analytical Report Number : 21-75361
Project / Site name: Belle Vue Stadium

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1873224	MG-101	None Supplied	None Supplied	Brown loam and clay with gravel.
1873225	MG-102	None Supplied	None Supplied	Brown clay and loam with gravel.
1873226	MG-103	None Supplied	None Supplied	Brown clay and loam with gravel.
1873227	MG-104	None Supplied	None Supplied	Brown clay and loam with gravel.
1873228	MG-105	None Supplied	None Supplied	Brown clay and loam with gravel.
1873229	MG-106	None Supplied	None Supplied	Brown clay and loam with gravel.
1873230	MG-107	None Supplied	None Supplied	Brown clay and loam with gravel and brick.
1873231	MG-108	None Supplied	None Supplied	Brown clay and loam with gravel.
1873232	MG-109	None Supplied	None Supplied	Brown clay and loam with gravel.
1873233	MG-110	None Supplied	None Supplied	Brown clay and loam with gravel.

Analytical Report Number : 21-75361
Project / Site name: Belle Vue Stadium

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in leachate - LOW LEVEL 1 ug/l	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
pH at 20oC in leachate	Determination of pH in leachate by electrometric measurement.	In house method.	L005-PL	W	ISO 17025
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

Analytical Report Number : 21-75361
Project / Site name: Belle Vue Stadium

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
BTEX and MTBE in leachates (Monoaromatics)	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Total cyanide in leachate - 1µg/l	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Olivia Jackson

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Analytical Report Number : 22-40053

Project / Site name:	Belle Vue	Samples received on:	15/02/2022
Your job number:	12-123	Samples instructed on/ Analysis started on:	15/02/2022
Your order number:	000645	Analysis completed by:	22/02/2022
Report Issue Number:	1	Report issued on:	22/02/2022
Samples Analysed:	6 soil samples		

Signed:

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-40053
Project / Site name: Belle Vue
Your Order No: 000645

Lab Sample Number				2174895	2174896	2174897	2174898	2174899
Sample Reference				MG-West 001	MG-West 002	MG-West 003	MG-West 004	MG-West 005
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/02/2022	14/02/2022	14/02/2022	14/02/2022	14/02/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	17	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	22	20	20	23
Total mass of sample received	kg	0.001	NONE	0.30	0.30	0.30	0.30	0.30

General Inorganics

Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	2.2
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	37	55	51	70	48
Barium (aqua regia extractable)	mg/kg	1	MCERTS	600	580	600	480	680
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.5	3.2	2.3	2.5	2.8
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	0.7	1.7	0.8	1.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	2.5	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	NONE	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Copper (aqua regia extractable)	mg/kg	1	MCERTS	330	250	370	320	260
Lead (aqua regia extractable)	mg/kg	1	MCERTS	590	610	570	710	670
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	2.3	2.4	2.1	2.0	2.2
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	41	51	54	61	50
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	59	67	63	59	71
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	370	430	710	400	410

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	1.4	< 1.0	4.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	2.9	2.9	3.5	3.9	11
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	19	15	8.1	8.8	13
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	96	78	43	38	51
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	MCERTS	120	96	56	51	80

TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	6.9	12	3.3	5.7	8.9
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	100	120	53	66	60
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	630	620	300	340	250
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	930	820	380	440	310
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	MCERTS	1700	1600	740	850	630

Analytical Report Number: 22-40053
Project / Site name: Belle Vue
Your Order No: 000645

Lab Sample Number	2174895	2174896	2174897	2174898	2174899
Sample Reference	MG-West 001	MG-West 002	MG-West 003	MG-West 004	MG-West 005
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	14/02/2022	14/02/2022	14/02/2022	14/02/2022	14/02/2022
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 22-40053
Project / Site name: Belle Vue
Your Order No: 000645

Lab Sample Number				2174895	2174896	2174897	2174898	2174899
Sample Reference				MG-West 001	MG-West 002	MG-West 003	MG-West 004	MG-West 005
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/02/2022	14/02/2022	14/02/2022	14/02/2022	14/02/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	1.5	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	8.0	12	4.3	6.3	3.2
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	4.2	10	4.6	5.1	3.2
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	0.94	0.87	0.82	1.9	1.0
Acenaphthene	mg/kg	0.05	MCERTS	17	22	11	15	16
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	6.1	10	4.4	6.9	7.4
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	15	16	7.6	13	13
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	130	120	67	89	89
Anthracene	mg/kg	0.05	MCERTS	28	27	17	21	24
Carbazole	mg/kg	0.3	MCERTS	8.9	6.8	3.9	4.8	5.0
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	3.1	3.3	2.6	3.0
Fluoranthene	mg/kg	0.05	MCERTS	140	120	94	110	100
Pyrene	mg/kg	0.05	MCERTS	120	110	87	100	95
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Analytical Report Number: 22-40053
Project / Site name: Belle Vue
Your Order No: 000645

Lab Sample Number				2174895	2174896	2174897	2174898	2174899
Sample Reference				MG-West 001	MG-West 002	MG-West 003	MG-West 004	MG-West 005
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				14/02/2022	14/02/2022	14/02/2022	14/02/2022	14/02/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Benzo(a)anthracene	mg/kg	0.05	MCERTS	68	56	41	48	46
Chrysene	mg/kg	0.05	MCERTS	47	45	34	47	35
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	53	44	36	39	42
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	26	22	18	26	12
Benzo(a)pyrene	mg/kg	0.05	MCERTS	52	47	37	45	38
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	26	23	18	21	19
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	8.1	7.1	5.6	6.8	6.0
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	32	28	22	27	24

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 22-40053
Project / Site name: Belle Vue
Your Order No: 000645

Lab Sample Number				2174900
Sample Reference				MG-West 006
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				14/02/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	23
Total mass of sample received	kg	0.001	NONE	0.30

General Inorganics

Total Cyanide	mg/kg	1	MCERTS	1.3
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	53
Barium (aqua regia extractable)	mg/kg	1	MCERTS	560
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.3
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	NONE	< 4.0
Copper (aqua regia extractable)	mg/kg	1	MCERTS	230
Lead (aqua regia extractable)	mg/kg	1	MCERTS	580
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	2.2
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	46
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	63
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	440

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	6.3
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	20
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	MCERTS	35

TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	7.8
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	93
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	430
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	390
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	MCERTS	920

Analytical Report Number: 22-40053
Project / Site name: Belle Vue
Your Order No: 000645

Lab Sample Number				2174900
Sample Reference				MG-West 006
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				14/02/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
VOCs				
Chloromethane	µg/kg	1	ISO 17025	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0

Analytical Report Number: 22-40053
Project / Site name: Belle Vue
Your Order No: 000645

Lab Sample Number				2174900
Sample Reference				MG-West 006
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				14/02/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	14
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	15
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	1.2
Acenaphthene	mg/kg	0.05	MCERTS	31
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	16
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2
Fluorene	mg/kg	0.05	MCERTS	22
Azobenzene	mg/kg	0.3	MCERTS	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	180
Anthracene	mg/kg	0.05	MCERTS	39
Carbazole	mg/kg	0.3	MCERTS	11
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	5.0
Fluoranthene	mg/kg	0.05	MCERTS	160
Pyrene	mg/kg	0.05	MCERTS	150
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3

Analytical Report Number: 22-40053
 Project / Site name: Belle Vue
 Your Order No: 000645

Lab Sample Number				2174900
Sample Reference				MG-West 006
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				14/02/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Benzo(a)anthracene	mg/kg	0.05	MCERTS	71
Chrysene	mg/kg	0.05	MCERTS	56
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	55
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	24
Benzo(a)pyrene	mg/kg	0.05	MCERTS	56
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	27
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	8.2
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	32

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 22-40053
Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2174895	MG-West 001	None Supplied	None Supplied	Brown gravelly loam with stones.
2174896	MG-West 002	None Supplied	None Supplied	Brown clay and loam with vegetation and gravel
2174897	MG-West 003	None Supplied	None Supplied	Brown clay and loam with vegetation and gravel
2174898	MG-West 004	None Supplied	None Supplied	Brown clay and loam with vegetation and gravel
2174899	MG-West 005	None Supplied	None Supplied	Brown gravelly loam with vegetation and clinker
2174900	MG-West 006	None Supplied	None Supplied	Brown gravelly loam with vegetation and clinker

Analytical Report Number : 22-40053
Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Analytical Report Number : 22-40053
Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

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Analytical Report Number : 21-27236

Project / Site name:	Belle Vue	Samples received on:	02/12/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	06/12/2021
Your order number:	00110	Analysis completed by:	14/12/2021
Report Issue Number:	1	Report issued on:	14/12/2021
Samples Analysed:	6 soil samples		

Signed:

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-27236
Project / Site name: Belle Vue
Your Order No: 00110

Lab Sample Number				2106479	2106480	2106481	2106482	2106483
Sample Reference				MG-East-001	MG-East-002	MG-East-003	MG-East-004	MG-East-005
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	17	18	14	18
Total mass of sample received	kg	0.001	NONE	0.30	0.30	0.30	0.30	0.30

General Inorganics

Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	30	29	24	48
Barium (aqua regia extractable)	mg/kg	1	MCERTS	140	350	370	200	580
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.94	1.2	1.6	1.2	2.9
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	1.0	0.7	0.5	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Copper (aqua regia extractable)	mg/kg	1	MCERTS	85	490	270	130	360
Lead (aqua regia extractable)	mg/kg	1	MCERTS	67	450	440	310	760
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	1.0	< 0.3	1.9
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	54	35	34	56
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	23	42	44	35	63
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	87	280	250	120	420

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	2.7	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	75	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	MCERTS	< 10	83	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	2.6	9.6	< 1.0	5.7	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	12	33	46	13	66
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	41	170	250	60	490
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	76	250	440	110	810
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	MCERTS	130	460	740	190	1400

Analytical Report Number: 21-27236
Project / Site name: Belle Vue
Your Order No: 00110

Lab Sample Number				2106479	2106480	2106481	2106482	2106483
Sample Reference				MG-East-001	MG-East-002	MG-East-003	MG-East-004	MG-East-005
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-27236
Project / Site name: Belle Vue
Your Order No: 00110

Lab Sample Number				2106479	2106480	2106481	2106482	2106483
Sample Reference				MG-East-001	MG-East-002	MG-East-003	MG-East-004	MG-East-005
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	5.0	< 0.05	< 0.05	6.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	7.5	5.5	2.6	21
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.67	1.1	0.52	3.0
Acenaphthene	mg/kg	0.05	MCERTS	2.3	10	5.8	1.5	21
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	1.2	3.9	2.7	0.8	9.5
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	1.7	7.4	5.3	1.5	17
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	11	42	43	12	120
Anthracene	mg/kg	0.05	MCERTS	2.4	11	12	2.7	31
Carbazole	mg/kg	0.3	MCERTS	0.8	2.8	2.0	0.6	8.1
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	1.4	2.2	0.4	5.2
Fluoranthene	mg/kg	0.05	MCERTS	13	51	58	16	110
Pyrene	mg/kg	0.05	MCERTS	12	48	53	15	110
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Analytical Report Number: 21-27236
Project / Site name: Belle Vue
Your Order No: 00110

Lab Sample Number				2106479	2106480	2106481	2106482	2106483
Sample Reference				MG-East-001	MG-East-002	MG-East-003	MG-East-004	MG-East-005
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Benzo(a)anthracene	mg/kg	0.05	MCERTS	5.6	29	33	8.3	69
Chrysene	mg/kg	0.05	MCERTS	5.0	19	21	7.2	45
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	4.2	14	18	5.6	37
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	2.2	15	14	3.9	32
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.1	18	20	5.9	43
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.8	12	12	3.6	26
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.75	3.7	3.6	1.1	8.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	3.2	13	13	4.0	29

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-27236
Project / Site name: Belle Vue
Your Order No: 00110

Lab Sample Number				2106484
Sample Reference				MG-East-006
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				02/12/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	17
Total mass of sample received	kg	0.001	NONE	0.30

General Inorganics

Total Cyanide	mg/kg	1	MCERTS	< 1.0
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	48
Barium (aqua regia extractable)	mg/kg	1	MCERTS	580
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.4
Boron (water soluble)	mg/kg	0.2	MCERTS	1.0
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0
Copper (aqua regia extractable)	mg/kg	1	MCERTS	300
Lead (aqua regia extractable)	mg/kg	1	MCERTS	710
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.7
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	44
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	57
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	390

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	3.6
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	23
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	61
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	MCERTS	88

TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	4.2
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	59
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	320
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	580
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	MCERTS	960

Analytical Report Number: 21-27236
Project / Site name: Belle Vue
Your Order No: 00110

Lab Sample Number				2106484
Sample Reference				MG-East-006
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				02/12/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
VOCs				
Chloromethane	µg/kg	1	ISO 17025	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0

Analytical Report Number: 21-27236
Project / Site name: Belle Vue
Your Order No: 00110

Lab Sample Number					2106484
Sample Reference					MG-East-006
Sample Number					None Supplied
Depth (m)					None Supplied
Date Sampled					02/12/2021
Time Taken					None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	4.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	10
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	2.0
Acenaphthene	mg/kg	0.05	MCERTS	16
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	6.9
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2
Fluorene	mg/kg	0.05	MCERTS	13
Azobenzene	mg/kg	0.3	MCERTS	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	89
Anthracene	mg/kg	0.05	MCERTS	24
Carbazole	mg/kg	0.3	MCERTS	5.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	4.0
Fluoranthene	mg/kg	0.05	MCERTS	110
Pyrene	mg/kg	0.05	MCERTS	95
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3

Analytical Report Number: 21-27236
 Project / Site name: Belle Vue
 Your Order No: 00110

Lab Sample Number				2106484
Sample Reference				MG-East-006
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				02/12/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Benzo(a)anthracene	mg/kg	0.05	MCERTS	62
Chrysene	mg/kg	0.05	MCERTS	41
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	42
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	41
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	24
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	7.2
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	27

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-27236

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2106479	MG-East-001	None Supplied	None Supplied	Brown clay and sand with gravel.
2106480	MG-East-002	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2106481	MG-East-003	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2106482	MG-East-004	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation.
2106483	MG-East-005	None Supplied	None Supplied	Brown clay and sand with gravel.
2106484	MG-East-006	None Supplied	None Supplied	Brown clay and sand with gravel.

Analytical Report Number : 21-27236

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted

Analytical Report Number : 21-27236

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
_	Operator - understore to separate acronyms (exception for +)				
	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total				
+					

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Analytical Report Number : 21-29895

Project / Site name:	Belle Vue	Samples received on:	17/12/2021
Your job number:	12 123	Samples instructed on/ Analysis started on:	17/12/2021
Your order number:	000172	Analysis completed by:	24/12/2021
Report Issue Number:	1	Report issued on:	24/12/2021
Samples Analysed:	10 soil samples		

Signed:

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-29895
Project / Site name: Belle Vue
Your Order No: 000172

Lab Sample Number				2121034	2121035	2121036	2121037	2121038
Sample Reference				MG-EAST 007	MG-SW 008	MG-EAST 009	MG-SW 010	MG-EAST 011
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	23	21	21	21	23
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

General Inorganics

Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Organic Matter (automated)	%	0.1	MCERTS	5.4	-	-	4.5	-

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	35	42	19	31	33
Barium (aqua regia extractable)	mg/kg	1	MCERTS	370	510	290	330	340
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.9	2.2	1.2	2.1	1.8
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.7	0.3	0.6	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Copper (aqua regia extractable)	mg/kg	1	MCERTS	190	350	78	320	200
Lead (aqua regia extractable)	mg/kg	1	MCERTS	480	550	120	290	310
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.3	2.0	< 0.3	0.6	1.6
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	39	24	50	40
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	49	50	35	48	47
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	240	370	100	210	230

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	7.0	3.4	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	20	12	< 2.0	16	14
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	36	27	< 8.0	18	34
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	110	82	< 8.0	72	57
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	MCERTS	170	120	< 10	110	100

TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	17	16	2.5	45	8.2
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	71	68	8.7	160	96
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	270	320	60	750	390
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	360	420	96	1200	440
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	MCERTS	720	820	170	2100	940

Analytical Report Number: 21-29895
Project / Site name: Belle Vue
Your Order No: 000172

Lab Sample Number	2121034	2121035	2121036	2121037	2121038
Sample Reference	MG-EAST 007	MG-SW 008	MG-EAST 009	MG-SW 010	MG-EAST 011
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-29895
Project / Site name: Belle Vue
Your Order No: 000172

Lab Sample Number				2121034	2121035	2121036	2121037	2121038
Sample Reference				MG-EAST 007	MG-SW 008	MG-EAST 009	MG-SW 010	MG-EAST 011
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	3.7	13	< 0.05	38	4.0
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	3.3	11	0.8	22	7.7
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	0.86	1.8	< 0.05	8.4	0.79
Acenaphthene	mg/kg	0.05	MCERTS	16	20	1.3	20	20
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	7.4	9.2	1.4	16	10
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	14	17	1.1	30	15
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	86	120	13	180	110
Anthracene	mg/kg	0.05	MCERTS	24	30	3.9	43	21
Carbazole	mg/kg	0.3	MCERTS	6.1	7.9	1.8	10	4.7
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	2.4	4.9	1.7	4.0	4.7
Fluoranthene	mg/kg	0.05	MCERTS	110	140	21	190	120
Pyrene	mg/kg	0.05	MCERTS	97	130	18	190	110
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Analytical Report Number: 21-29895
Project / Site name: Belle Vue
Your Order No: 000172

Lab Sample Number				2121034	2121035	2121036	2121037	2121038
Sample Reference				MG-EAST 007	MG-SW 008	MG-EAST 009	MG-SW 010	MG-EAST 011
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Benzo(a)anthracene	mg/kg	0.05	MCERTS	48	66	9.2	89	49
Chrysene	mg/kg	0.05	MCERTS	42	51	7.1	77	45
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	57	75	11	94	61
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	11	12	2.6	27	11
Benzo(a)pyrene	mg/kg	0.05	MCERTS	45	59	8.7	89	48
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	19	27	4.6	38	23
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	5.6	8.2	1.3	12	7.1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	22	32	5.2	45	27

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-29895
Project / Site name: Belle Vue
Your Order No: 000172

Lab Sample Number				2121039	2121040	2121041	2121042	2121043
Sample Reference				MG-SW 012	MG-EAST 013	MG-SW 014	MG-EAST 015	MG-SW 016
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	21	20	19	25
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

General Inorganics

Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Organic Matter (automated)	%	0.1	MCERTS	-	3.8	-	-	8.0

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	36	25	42	22	47
Barium (aqua regia extractable)	mg/kg	1	MCERTS	520	370	570	240	440
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	2.3	1.5	1.9	1.3	2.6
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2	0.5	0.6	0.9	1.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Copper (aqua regia extractable)	mg/kg	1	MCERTS	260	180	260	140	240
Lead (aqua regia extractable)	mg/kg	1	MCERTS	500	390	600	250	490
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.2	0.8	1.6	0.9	1.1
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	47	33	43	27	47
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	51	42	73	45	56
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	360	180	330	180	290

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	2.7	< 1.0	4.4	2.4
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	10	24	7.4	39	10
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	13	52	19	67	16
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	14	57	58	140	53
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	MCERTS	37	140	84	250	81

TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	28	5.8	4.9	6.6	2.5
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	120	44	47	53	31
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	570	160	240	190	170
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	580	230	360	280	210
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	MCERTS	1300	440	650	530	410

Analytical Report Number: 21-29895
Project / Site name: Belle Vue
Your Order No: 000172

Lab Sample Number				2121039	2121040	2121041	2121042	2121043
Sample Reference				MG-SW 012	MG-EAST 013	MG-SW 014	MG-EAST 015	MG-SW 016
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-29895
Project / Site name: Belle Vue
Your Order No: 000172

Lab Sample Number				2121039	2121040	2121041	2121042	2121043
Sample Reference				MG-SW 012	MG-EAST 013	MG-SW 014	MG-EAST 015	MG-SW 016
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	5.2	1.7	4.4	5.3	2.4
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	4.2	1.6	4.2	3.2	1.8
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	0.94	0.97	1.1	0.78	0.98
Acenaphthene	mg/kg	0.05	MCERTS	14	5.8	14	6.5	8.4
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	6.3	2.5	6.5	3.3	3.5
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	11	5.5	11	6.3	7.0
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	82	33	87	34	43
Anthracene	mg/kg	0.05	MCERTS	20	8.6	20	9.5	12
Carbazole	mg/kg	0.3	MCERTS	4.2	2.0	4.5	2.9	2.2
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	4.0	1.3	3.7	0.7	1.9
Fluoranthene	mg/kg	0.05	MCERTS	99	43	100	39	64
Pyrene	mg/kg	0.05	MCERTS	95	43	93	38	62
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Analytical Report Number: 21-29895
Project / Site name: Belle Vue
Your Order No: 000172

Lab Sample Number				2121039	2121040	2121041	2121042	2121043
Sample Reference				MG-SW 012	MG-EAST 013	MG-SW 014	MG-EAST 015	MG-SW 016
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Benzo(a)anthracene	mg/kg	0.05	MCERTS	47	19	45	18	32
Chrysene	mg/kg	0.05	MCERTS	41	18	38	13	23
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	53	22	47	18	36
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	13	6.8	15	5.2	6.6
Benzo(a)pyrene	mg/kg	0.05	MCERTS	44	20	41	15	29
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	20	8.5	20	7.3	13
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	6.5	2.7	5.4	2.0	4.0
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	24	10	23	8.6	15

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-29895

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2121034	MG-EAST 007	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2121035	MG-SW 008	None Supplied	None Supplied	Brown clay and sand with gravel.
2121036	MG-EAST 009	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2121037	MG-SW 010	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2121038	MG-EAST 011	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2121039	MG-SW 012	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2121040	MG-EAST 013	None Supplied	None Supplied	Brown clay and sand with gravel.
2121041	MG-SW 014	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2121042	MG-EAST 015	None Supplied	None Supplied	Brown clay and sand with gravel.
2121043	MG-SW 016	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.

Analytical Report Number : 21-29895

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Analytical Report Number : 21-29895

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

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Analytical Report Number : 21-93983

Project / Site name:	Belle Vue	Samples received on:	18/08/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	19/08/2021
Your order number:	12-123-GC-O	Analysis completed by:	26/08/2021
Report Issue Number:	1	Report issued on:	26/08/2021
Samples Analysed:	2 soil samples		

Signed:

Izabela Wójcik
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-93983
 Project / Site name: Belle Vue
 Your Order No: 12-123-GC-0

Lab Sample Number				1979040	1979041
Sample Reference				SW-MG-024	SW-MG-025
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				18/08/2021	18/08/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	15
Total mass of sample received	kg	0.001	NONE	0.40	0.40

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	7.9
Total Cyanide	mg/kg	1	MCERTS	3.4	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2100	530
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.39	0.078
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	770	160
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	386	77.9
Sulphide	mg/kg	1	MCERTS	59	17
Total Sulphur	mg/kg	50	MCERTS	2300	960

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.99	0.24
Acenaphthylene	mg/kg	0.05	MCERTS	0.43	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	2.8	0.48
Fluorene	mg/kg	0.05	MCERTS	2.1	0.34
Phenanthrene	mg/kg	0.05	MCERTS	17	2.7
Anthracene	mg/kg	0.05	MCERTS	4.5	0.60
Fluoranthene	mg/kg	0.05	MCERTS	31	4.7
Pyrene	mg/kg	0.05	MCERTS	29	4.8
Benzo(a)anthracene	mg/kg	0.05	MCERTS	16	2.8
Chrysene	mg/kg	0.05	MCERTS	12	2.0
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	18	1.9
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	4.8	0.93
Benzo(a)pyrene	mg/kg	0.05	MCERTS	15	2.0
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	8.1	2.1
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.5	0.63
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	9.3	2.6

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	172	28.7
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Analytical Report Number: 21-93983
Project / Site name: Belle Vue
Your Order No: 12-123-GC-0

Lab Sample Number				1979040	1979041
Sample Reference				SW-MG-024	SW-MG-025
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				18/08/2021	18/08/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection
				Accreditation Status	

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	60	33
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	190	130
Lead (aqua regia extractable)	mg/kg	1	MCERTS	1100	290
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	2.0	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	51	32
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	270	170

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	8.9	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	24	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	99	18
TPH (C21 - C35)	mg/kg	1	MCERTS	240	29
TPH (C35 - C40)	mg/kg	10	MCERTS	17	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	390	46

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-93983
Project / Site name: Belle Vue
Your Order No: 12-123-GC-O

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1979040	SW-MG-024		119	Loose Fibres	Chrysotile	< 0.001	< 0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 21-93983

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1979040	SW-MG-024	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
1979041	SW-MG-025	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.

Analytical Report Number : 21-93983
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-93983
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-93140

Project / Site name:	Belle Vue	Samples received on:	13/08/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	13/08/2021
Your order number:	12-123-GC-M	Analysis completed by:	23/08/2021
Report Issue Number:	1	Report issued on:	23/08/2021
Samples Analysed:	1 leachate sample - 3 soil samples		

Signed:



Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-93140
Project / Site name: Belle Vue
Your Order No: 12-123-GC-M

Lab Sample Number				1973883	1973884	1973885
Sample Reference				SW-MG-21	SW-MG-22	SW-MG-23
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				13/08/2021	13/08/2021	13/08/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	17	12
Total mass of sample received	kg	0.001	NONE	0.40	0.50	0.90

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.9	8.3	8.4
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	550	950	310
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.046	0.15	0.038
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	92	310	76
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	45.9	155	38.2
Sulphide	mg/kg	1	MCERTS	< 1.0	16	2.1
Total Sulphur	mg/kg	50	MCERTS	300	2200	250

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	2.6	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	2.8	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.6	39	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.49	8.3	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	2.7	47	< 0.05
Pyrene	mg/kg	0.05	MCERTS	2.5	51	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.4	26	< 0.05
Chrysene	mg/kg	0.05	MCERTS	1.2	14	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.5	18	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.49	9.6	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.1	18	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.57	6.9	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.9	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.61	7.4	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	14.1	252	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.5	51	7.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	33	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	28	190	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	91	12
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	33	41	29
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	63	140	67

Analytical Report Number: 21-93140
Project / Site name: Belle Vue
Your Order No: 12-123-GC-M

Lab Sample Number				1973883	1973884	1973885
Sample Reference				SW-MG-21	SW-MG-22	SW-MG-23
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				13/08/2021	13/08/2021	13/08/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	19	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	11	160	< 1.0
TPH (C21 - C35)	mg/kg	1	MCERTS	14	140	< 1.0
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	22	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	25	330	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-93140

Project / Site name: Belle Vue

Your Order No: 12-123-GC-M

Lab Sample Number				1973886
Sample Reference				SW-MG-23
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				13/08/2021
Time Taken				None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

pH	pH Units	N/A	ISO 17025	7.8
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	< 1.0
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1	ISO 17025	< 1.0
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	0.7
Copper (dissolved)	µg/l	0.7	ISO 17025	16
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.8
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	12

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10



Analytical Report Number: 21-93140

Project / Site name: Belle Vue

Your Order No: 12-123-GC-M

Lab Sample Number				1973886
Sample Reference				SW-MG-23
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				13/08/2021
Time Taken				None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-93140

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1973883	SW-MG-21	None Supplied	None Supplied	Brown clay and loam.
1973884	SW-MG-22	None Supplied	None Supplied	Brown clay and loam.
1973885	SW-MG-23	None Supplied	None Supplied	Brown clay and loam.

Analytical Report Number : 21-93140

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in leachate - LOW LEVEL 1 ug/l	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
pH at 20oC in leachate	Determination of pH in leachate by electrometric measurement.	In house method.	L005-PL	W	ISO 17025
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

Analytical Report Number : 21-93140

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
BTEX and MTBE in leachates (Monoaromatics)	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Total cyanide in leachate - 1µg/l	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-76950

Project / Site name:	Belle Vue Stadium	Samples received on:	24/05/2021
Your job number:	12 123	Samples instructed on/ Analysis started on:	24/05/2021
Your order number:	12 123 GC L	Analysis completed by:	01/06/2021
Report Issue Number:	1	Report issued on:	01/06/2021
Samples Analysed:	3 soil samples		

Signed:

Izabela W
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-76950
Project / Site name: Belle Vue Stadium
Your Order No: 12 123 GC L

Lab Sample Number				1881327	1881328	1881329
Sample Reference				MG-SP-001	MG-SP-002	MG-SP-003
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				21/05/2021	21/05/2021	21/05/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	18	18
Total mass of sample received	kg	0.001	NONE	0.40	0.40	0.40

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.8	7.9	7.8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1200	1200	1300
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.15	0.10	0.14
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	290	210	280
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	145	103	142
Sulphide	mg/kg	1	MCERTS	26	2.7	9.8
Total Sulphur	mg/kg	50	MCERTS	810	890	1100

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.39	< 0.05	0.37
Acenaphthene	mg/kg	0.05	MCERTS	1.6	0.97	2.2
Fluorene	mg/kg	0.05	MCERTS	1.3	0.85	1.7
Phenanthrene	mg/kg	0.05	MCERTS	10	5.5	14
Anthracene	mg/kg	0.05	MCERTS	3.4	2.0	4.2
Fluoranthene	mg/kg	0.05	MCERTS	17	9.5	21
Pyrene	mg/kg	0.05	MCERTS	17	9.1	21
Benzo(a)anthracene	mg/kg	0.05	MCERTS	9.9	5.2	11
Chrysene	mg/kg	0.05	MCERTS	7.9	3.8	11
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	11	4.7	13
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	3.3	2.4	4.8
Benzo(a)pyrene	mg/kg	0.05	MCERTS	9.7	4.8	12
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	4.7	2.6	6.2
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	1.5	0.86	1.9
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	5.7	3.2	7.3

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	104	55.4	132
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	34	34	35
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31	30	59
Copper (aqua regia extractable)	mg/kg	1	MCERTS	120	160	160
Lead (aqua regia extractable)	mg/kg	1	MCERTS	610	710	380
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	48	45	110
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	180	180	200

Analytical Report Number: 21-76950
 Project / Site name: Belle Vue Stadium
 Your Order No: 12 123 GC L

Lab Sample Number				1881327	1881328	1881329
Sample Reference				MG-SP-001	MG-SP-002	MG-SP-003
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				21/05/2021	21/05/2021	21/05/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	3.5
TPH (C12 - C16)	mg/kg	4	MCERTS	13	13	16
TPH (C16 - C21)	mg/kg	1	MCERTS	74	68	100
TPH (C21 - C35)	mg/kg	1	MCERTS	130	110	190
TPH (C35 - C40)	mg/kg	10	MCERTS	33	23	33
TPH Total C5 - C40	mg/kg	10	MCERTS	250	220	350

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-76950
Project / Site name: Belle Vue Stadium

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1881327	MG-SP-001	None Supplied	None Supplied	Brown loam and clay with gravel and brick.
1881328	MG-SP-002	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation.
1881329	MG-SP-003	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 21-76950
Project / Site name: Belle Vue Stadium

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-76950
Project / Site name: Belle Vue Stadium

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-76937

Project / Site name:	Belle Vue Stadium	Samples received on:	24/05/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	24/05/2021
Your order number:	12-123-GC-J	Analysis completed by:	01/06/2021
Report Issue Number:	1	Report issued on:	01/06/2021
Samples Analysed:	10 soil samples		

Signed:

Agneszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-76937
Project / Site name: Belle Vue Stadium
Your Order No: 12-123-GC-J

Lab Sample Number				1881239	1881240	1881241	1881242	1881243
Sample Reference				SW-MG-011	SW-MG-012	SW-MG-013	SW-MG-014	SW-MG-015
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				21/05/2021	21/05/2021	21/05/2021	21/05/2021	21/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	15	16	16	21
Total mass of sample received	kg	0.001	NONE	0.40	0.40	0.40	0.40	0.50

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	Chrysotile	Chrysotile	Chrysotile	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Detected	Detected	Detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	0.001	< 0.001	< 0.001	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	0.001	< 0.001	< 0.001	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	7.7	7.3	7.2	7.8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	2500	1700	2600	3200	830
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.65	0.31	0.30	0.19	0.063
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	1300	610	600	380	130
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	649	306	299	190	62.6
Sulphide	mg/kg	1	MCERTS	58	22	22	9.2	5.8
Total Sulphur	mg/kg	50	MCERTS	2200	1700	2000	2300	560

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.47	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.21	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	7.9	2.6	0.48	9.0	0.28
Fluorene	mg/kg	0.05	MCERTS	6.3	2.2	0.29	6.9	0.32
Phenanthrene	mg/kg	0.05	MCERTS	48	18	4.4	83	2.6
Anthracene	mg/kg	0.05	MCERTS	15	4.9	1.0	26	0.67
Fluoranthene	mg/kg	0.05	MCERTS	84	32	15	150	4.4
Pyrene	mg/kg	0.05	MCERTS	79	33	16	130	4.5
Benzo(a)anthracene	mg/kg	0.05	MCERTS	40	19	10	71	2.6
Chrysene	mg/kg	0.05	MCERTS	32	15	10	64	2.2
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	44	18	12	81	1.9
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	16	6.1	4.0	29	1.0
Benzo(a)pyrene	mg/kg	0.05	MCERTS	35	16	11	63	1.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	18	8.3	6.3	32	1.1
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	5.2	2.6	1.8	9.5	0.35
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	20	10	7.6	35	1.6

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	451	190	100	791	25.5
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Analytical Report Number: 21-76937
 Project / Site name: Belle Vue Stadium
 Your Order No: 12-123-GC-J

Lab Sample Number				1881239	1881240	1881241	1881242	1881243
Sample Reference				SW-MG-011	SW-MG-012	SW-MG-013	SW-MG-014	SW-MG-015
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				21/05/2021	21/05/2021	21/05/2021	21/05/2021	21/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	43	48	54	130	34
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	26	26	46	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	340	300	160	1100	68
Lead (aqua regia extractable)	mg/kg	1	MCERTS	280	470	210	390	85
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	50	63	52	90	31
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	200	280	290	460	65

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	17	7.8	< 2.0	14	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	59	33	14	59	5.6
TPH (C16 - C21)	mg/kg	1	MCERTS	250	180	85	470	29
TPH (C21 - C35)	mg/kg	1	MCERTS	480	480	330	900	55
TPH (C35 - C40)	mg/kg	10	MCERTS	81	83	170	100	28
TPH Total C5 - C40	mg/kg	10	MCERTS	910	790	610	1600	120

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-76937
Project / Site name: Belle Vue Stadium
Your Order No: 12-123-GC-J

Lab Sample Number				1881244	1881245	1881246	1881247	1881248
Sample Reference				SW-MG-016	SW-MG-017	SW-MG-018	SW-MG-019	SW-MG-020
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				21/05/2021	21/05/2021	21/05/2021	21/05/2021	21/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	%	0.01	NONE	22	24	26	25	17
	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.0	7.8	7.5	7.2	7.7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1300	730	790	1700	1200
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.077	0.15	0.23	0.58	0.31
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	150	300	460	1200	630
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	77.3	149	228	577	313
Sulphide	mg/kg	1	MCERTS	9.6	6.3	14	43	16
Total Sulphur	mg/kg	50	MCERTS	890	590	890	1500	1000

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.53	< 0.05	1.1	1.3
Acenaphthylene	mg/kg	0.05	MCERTS	0.39	0.32	< 0.05	0.23	0.22
Acenaphthene	mg/kg	0.05	MCERTS	1.2	2.5	0.65	5.2	5.3
Fluorene	mg/kg	0.05	MCERTS	0.68	4.2	0.43	4.4	4.1
Phenanthrene	mg/kg	0.05	MCERTS	9.4	13	3.5	35	32
Anthracene	mg/kg	0.05	MCERTS	2.9	4.1	1.0	9.8	9.3
Fluoranthene	mg/kg	0.05	MCERTS	23	12	6.9	56	42
Pyrene	mg/kg	0.05	MCERTS	24	14	6.3	56	42
Benzo(a)anthracene	mg/kg	0.05	MCERTS	13	9.3	4.1	30	23
Chrysene	mg/kg	0.05	MCERTS	11	6.6	3.8	22	17
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	10	5.7	3.8	28	20
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	7.2	2.5	1.3	7.8	5.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	10	5.9	3.7	25	19
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	5.6	2.4	2.0	12	9.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	1.8	1.0	0.62	3.3	2.9
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	6.1	3.3	2.3	13	11

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	128	87.3	40.3	310	244
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Analytical Report Number: 21-76937
 Project / Site name: Belle Vue Stadium
 Your Order No: 12-123-GC-J

Lab Sample Number				1881244	1881245	1881246	1881247	1881248
Sample Reference				SW-MG-016	SW-MG-017	SW-MG-018	SW-MG-019	SW-MG-020
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				21/05/2021	21/05/2021	21/05/2021	21/05/2021	21/05/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	46	12	19	33	26
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	27	22	22	29	37
Copper (aqua regia extractable)	mg/kg	1	MCERTS	140	48	62	130	120
Lead (aqua regia extractable)	mg/kg	1	MCERTS	160	110	130	190	190
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	46	26	26	37	58
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	250	86	76	130	150

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	4.2	< 2.0	11	5.9
TPH (C12 - C16)	mg/kg	4	MCERTS	19	37	8.0	32	28
TPH (C16 - C21)	mg/kg	1	MCERTS	84	140	31	190	140
TPH (C21 - C35)	mg/kg	1	MCERTS	220	150	50	210	300
TPH (C35 - C40)	mg/kg	10	MCERTS	67	19	< 10	25	49
TPH Total C5 - C40	mg/kg	10	MCERTS	390	350	90	480	540

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-76937
Project / Site name: Belle Vue Stadium
Your Order No: 12-123-GC-J

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1881239	SW-MG-011		135	Loose Fibrous Debris	Chrysotile	< 0.001	< 0.001
1881240	SW-MG-012		142	Loose Fibres	Chrysotile	0.001	0.001
1881241	SW-MG-013		143	Loose Fibrous Debris	Chrysotile	< 0.001	< 0.001
1881242	SW-MG-014		143	Loose Fibres	Chrysotile	< 0.001	< 0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 21-76937
Project / Site name: Belle Vue Stadium

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1881239	SW-MG-011	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
1881240	SW-MG-012	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
1881241	SW-MG-013	None Supplied	None Supplied	Brown clay and sand with gravel.
1881242	SW-MG-014	None Supplied	None Supplied	Brown clay and sand with gravel.
1881243	SW-MG-015	None Supplied	None Supplied	Brown clay and sand with gravel.
1881244	SW-MG-016	None Supplied	None Supplied	Brown clay and sand with gravel.
1881245	SW-MG-017	None Supplied	None Supplied	Grey clay and sand with gravel.
1881246	SW-MG-018	None Supplied	None Supplied	Grey clay and sand with gravel and vegetation.
1881247	SW-MG-019	None Supplied	None Supplied	Grey clay and sand with gravel.
1881248	SW-MG-020	None Supplied	None Supplied	Grey clay and sand with gravel.

Analytical Report Number : 21-76937
Project / Site name: Belle Vue Stadium

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-76937
Project / Site name: Belle Vue Stadium

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
 For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
 Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-15052

Replaces Analytical Report Number: 21-15052, issue no. 1
Additional analysis undertaken.

Project / Site name:	Belle Vue	Samples received on:	07/10/2021
Your job number:	12 123	Samples instructed on/ Analysis started on:	07/10/2021
Your order number:	12123 GC Z	Analysis completed by:	02/11/2021
Report Issue Number:	2	Report issued on:	02/11/2021
Samples Analysed:	9 soil samples		

Signed:



Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.6	3.4	2.7	15	15
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	1.0	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	11.4	8.7	12.2	-	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	6400	6000	6800	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.94	1.2	0.43	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	1900	2400	870	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	941	1210	434	-	-
Sulphide	mg/kg	1	MCERTS	< 1.0	8.4	10	-	-
Total Sulphur	mg/kg	50	MCERTS	2700	2800	2100	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.3	2.6	0.6	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.67	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.34	3.0	2.0	-	-
Fluorene	mg/kg	0.05	MCERTS	0.38	2.1	1.9	-	-
Phenanthrene	mg/kg	0.05	MCERTS	3.8	17	17	-	-
Anthracene	mg/kg	0.05	MCERTS	0.84	4.6	3.9	-	-
Fluoranthene	mg/kg	0.05	MCERTS	4.8	24	18	-	-
Pyrene	mg/kg	0.05	MCERTS	4.2	23	15	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.1	14	7.7	-	-
Chrysene	mg/kg	0.05	MCERTS	1.7	8.7	6.1	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.5	11	6.7	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.91	4.8	3.2	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.4	9.1	4.6	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.70	5.3	2.4	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.4	0.74	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.79	6.0	2.4	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	23.4	134	92.0	-	-
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Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.4	13	4.6	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.7	0.3	-	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	30	16	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	20	42	9.0	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	49	13	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	26	11	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	58	91	96	-	-

Speciated Mercury (Dry Weight)

Inorganic Mercury	mg/kg	0.005	NONE	-	-	-	-	-
Organo-Mercury Species (including Methyl Hg)	mg/kg	0.005	NONE	-	-	-	-	-
Elemental Mercury	mg/kg	0.005	NONE	-	-	-	-	-

Speciated Mercury (Dry Weight)

F1 - Water soluble	mg/kg	0.005	NONE	-	-	-	-	-
F2 - Weak acid	mg/kg	0.005	NONE	-	-	-	-	-
F3 - Organo- complexed	mg/kg	0.005	NONE	-	-	-	-	-
F4 - Strongly complexed	mg/kg	0.005	NONE	-	-	-	-	-
F5 - Mineral bound	mg/kg	0.005	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	6.9	< 2.0	-	-
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	34	18	-	-
TPH (C16 - C21)	mg/kg	1	MCERTS	15	200	90	-	-
TPH (C21 - C35)	mg/kg	1	MCERTS	62	1500	360	-	-
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	500	140	-	-
TPH Total C5 - C40	mg/kg	10	MCERTS	77	2300	600	-	-

Analytical Report Number: 21-15052

Project / Site name: Belle Vue

Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0

Analytical Report Number: 21-15052

Project / Site name: Belle Vue

Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0

Analytical Report Number: 21-15052

Project / Site name: Belle Vue

Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	14
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1	13
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	2.0
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	0.34	31
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	13
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	0.23	21
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	1.8	180
Anthracene	mg/kg	0.05	MCERTS	-	-	-	0.42	42
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	10
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	< 0.3	10
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	2.0	190
Pyrene	mg/kg	0.05	MCERTS	-	-	-	2.0	170
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	1.1	96
Chrysene	mg/kg	0.05	MCERTS	-	-	-	0.82	83
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.90	75
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.36	29
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.72	61

Analytical Report Number: 21-15052

Project / Site name: Belle Vue

Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Indeno(1,2,3-cd)pyrene				mg/kg	0.05	MCERTS	-	37
Dibenz(a,h)anthracene				mg/kg	0.05	MCERTS	-	11
Benzo(ghi)perylene				mg/kg	0.05	MCERTS	-	41

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	17	16	18
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	-	8.3
Total Cyanide	mg/kg	1	MCERTS	-	-	-	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	2200
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-	-	-	0.42
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-	-	-	840
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-	-	-	419
Sulphide	mg/kg	1	MCERTS	-	-	-	23
Total Sulphur	mg/kg	50	MCERTS	-	-	-	2100
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	5.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-	-	-
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Project / Site name: Belle Vue

Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Heavy Metals / Metalloids							
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	38
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	2.3
Chromium (hexavalent)	mg/kg	4	MCERTS	-	-	-	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	380
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	520
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	2.1
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	50
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	440

Speciated Mercury (Dry Weight)

Inorganic Mercury	mg/kg	0.005	NONE	-	-	-	1.257
Organo-Mercury Species (including Methyl Hg)	mg/kg	0.005	NONE	-	-	-	0.121
Elemental Mercury	mg/kg	0.005	NONE	-	-	-	0.496

Speciated Mercury (Dry Weight)

F1 - Water soluble	mg/kg	0.005	NONE	-	-	-	0.112
F2 - Weak acid	mg/kg	0.005	NONE	-	-	-	0.092
F3 - Organo- complexed	mg/kg	0.005	NONE	-	-	-	0.121
F4 - Strongly complexed	mg/kg	0.005	NONE	-	-	-	0.496
F5 - Mineral bound	mg/kg	0.005	NONE	-	-	-	1.053

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	-	-	-	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	-	-	-	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	-	-	-	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	-	-	-	7.1
TPH (C12 - C16)	mg/kg	4	MCERTS	-	-	-	35
TPH (C16 - C21)	mg/kg	1	MCERTS	-	-	-	190
TPH (C21 - C35)	mg/kg	1	MCERTS	-	-	-	290
TPH (C35 - C40)	mg/kg	10	MCERTS	-	-	-	22
TPH Total C5 - C40	mg/kg	10	MCERTS	-	-	-	540

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Project / Site name: Belle Vue

Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
VOCs							
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0

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 Project / Site name: Belle Vue
 Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-15052

Project / Site name: Belle Vue

Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
SVOCs							
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	10	40	57	12
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	12	53	88	10
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	2.4	12	5.8	3.1
Acenaphthene	mg/kg	0.05	MCERTS	24	100	170	37
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	9.4	53	98	14
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	16	80	130	24
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	130	580	410	190
Anthracene	mg/kg	0.05	MCERTS	35	150	210	49
Carbazole	mg/kg	0.3	MCERTS	7.6	33	57	11
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	8.1	28	26	14
Fluoranthene	mg/kg	0.05	MCERTS	150	550	350	200
Pyrene	mg/kg	0.05	MCERTS	150	530	390	190
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	85	320	300	110
Chrysene	mg/kg	0.05	MCERTS	73	220	260	98
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	63	250	240	96
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	33	58	350	27
Benzo(a)pyrene	mg/kg	0.05	MCERTS	55	190	130	76

Analytical Report Number: 21-15052

Project / Site name: Belle Vue

Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	31	100	110	43
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	9.1	32	10	13
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	35	110	8.9	48

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-15052

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2039798	SW-CRUSH-004	None Supplied	None Supplied	Light grey rubble with brick.**
2039799	SW-CRUSH-005	None Supplied	None Supplied	Light grey rubble with clinker and tar.**
2039800	SW-CRUSH-006	None Supplied	None Supplied	Light grey rubble with brick.**
2039801	TP215 BASE	None Supplied	None Supplied	Brown clay with gravel.
2039802	TP215 NORTH	None Supplied	None Supplied	Brown clay and sand with gravel.
2039803	TP215 EAST	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2039804	TP215 SOUTH	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2039805	TP215 WEST	None Supplied	None Supplied	Brown clay and sand with gravel.
2039806	TP215 ARISING	None Supplied	None Supplied	Brown clay and sand with gravel.

** Non MCERTS Matrix

Analytical Report Number : 21-15052

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS

Analytical Report Number : 21-15052

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated Mercury in soil by Millennium Merlin Ana	Determination of Speciated Mercury in soil by Millennium Merlin Analyzer	In-house method	L085-PL	Dry	NONE
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Sample Deviation Report



Analytical Report Number : 21-15052

Project / Site name: Belle Vue

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP215 ARISINGS	None Supplied	S	2039806	c	Hexavalent chromium in soil	L080-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Monohydric phenols in soil	L080-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Organic matter (Automated) in soil	L009-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Sulphide in soil	L010-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	TPH in (Soil)	L076-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Total cyanide in soil	L080-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Total organic carbon (Automated) in soil	L009-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Volatile organic compounds in soil	L073B-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	pH in soil (automated)	L099-PL	c
TP215 BASE	None Supplied	S	2039801	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 BASE	None Supplied	S	2039801	c	Volatile organic compounds in soil	L073B-PL	c
TP215 EAST	None Supplied	S	2039803	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 EAST	None Supplied	S	2039803	c	Volatile organic compounds in soil	L073B-PL	c
TP215 NORTH	None Supplied	S	2039802	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 NORTH	None Supplied	S	2039802	c	Volatile organic compounds in soil	L073B-PL	c
TP215 SOUTH	None Supplied	S	2039804	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 SOUTH	None Supplied	S	2039804	c	Volatile organic compounds in soil	L073B-PL	c
TP215 WEST	None Supplied	S	2039805	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 WEST	None Supplied	S	2039805	c	Volatile organic compounds in soil	L073B-PL	c



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Analytical Report Number : 21-12408

Project / Site name:	Belle Vue	Samples received on:	24/09/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	24/09/2021
Your order number:	12-123-GC-V	Analysis completed by:	01/10/2021
Report Issue Number:	1	Report issued on:	01/10/2021
Samples Analysed:	3 soil samples		

Signed:

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-12408
Project / Site name: Belle Vue
Your Order No: 12-123-GC-V

Lab Sample Number				2024517	2024518	2024519
Sample Reference				SW-CRUSH-001	SW-CRUSH-002	SW-CRUSH-003
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				24/09/2021	24/09/2021	24/09/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	2.5	4.9	2.6
Total mass of sample received	kg	0.001	NONE	0.50	1.2	1.2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.0	12.2	12.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	4800	5500	9100
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	1.1	0.052	1.2
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	2200	100	2300
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	1100	52.4	1170
Sulphide	mg/kg	1	MCERTS	68	8.8	13
Total Sulphur	mg/kg	50	MCERTS	2200	2300	4200
Total Organic Carbon (TOC)	%	0.1	MCERTS	< 0.1	0.1	0.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.80	0.36	1.0
Anthracene	mg/kg	0.05	MCERTS	0.18	< 0.05	0.26
Fluoranthene	mg/kg	0.05	MCERTS	1.0	0.54	1.5
Pyrene	mg/kg	0.05	MCERTS	0.99	0.55	1.4
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.52	0.28	0.77
Chrysene	mg/kg	0.05	MCERTS	0.46	0.30	0.82
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.39	0.30	0.74
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.35	0.25	0.30
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.48	0.28	0.56
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.24	< 0.05	0.35
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.32	< 0.05	0.39

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	5.74	2.86	8.07
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Analytical Report Number: 21-12408

Project / Site name: Belle Vue

Your Order No: 12-123-GC-V

Lab Sample Number				2024517	2024518	2024519
Sample Reference				SW-CRUSH-001	SW-CRUSH-002	SW-CRUSH-003
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				24/09/2021	24/09/2021	24/09/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.7	3.6	13
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	0.5	0.5
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	11	15	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	17	26
Lead (aqua regia extractable)	mg/kg	1	MCERTS	8.4	12	21
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	6.3	9.8	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	50	33	71

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	11
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	8.9	5.6	10
TPH (C21 - C35)	mg/kg	1	MCERTS	21	27	64
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	< 10	44
TPH Total C5 - C40	mg/kg	10	MCERTS	30	32	130

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-12408

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2024517	SW-CRUSH-001	None Supplied	None Supplied	Brown loam with gravel.
2024518	SW-CRUSH-002	None Supplied	None Supplied	Brown gravel.**
2024519	SW-CRUSH-003	None Supplied	None Supplied	Brown gravel.**

** Non MCERTS matrix

Analytical Report Number : 21-12408

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-12408
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
 For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
 Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-93984

Project / Site name:	Belle Vue	Samples received on:	18/08/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	19/08/2021
Your order number:	12123-GC-Q	Analysis completed by:	25/08/2021
Report Issue Number:	1	Report issued on:	25/08/2021
Samples Analysed:	1 soil sample		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-93984

Project / Site name: Belle Vue

Your Order No: 12123-GC-Q

Lab Sample Number				1979042
Sample Reference				SUB S-001
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				18/08/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	17
Total mass of sample received	kg	0.001	NONE	0.60

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001

Total PCBs by GC-MS

Total PCBs	mg/kg	0.007	MCERTS	< 0.007
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U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-93984
Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1979042	SUB S-001	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.

Analytical Report Number : 21-93984
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-18955

Project / Site name:	Belle Vue	Samples received on:	26/10/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	26/10/2021
Your order number:	12-132-GC-AB	Analysis completed by:	02/11/2021
Report Issue Number:	1	Report issued on:	02/11/2021
Samples Analysed:	18 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-18955
Project / Site name: Belle Vue
Your Order No: 12-132-GC-AB

Lab Sample Number				2061789	2061790	2061791	2061792	2061793
Sample Reference				TP106 North	TP106 South	TP106 East	TP106 West	TP106 Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	17	18	14	18
Total mass of sample received	kg	0.001	NONE	0.80	0.80	0.80	0.80	0.80

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	-	-	-
Total Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-	-	-	-	-
Sulphide	mg/kg	1	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent)	mg/kg	4	MCERTS	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	3.9	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	10	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	11	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-18955
Project / Site name: Belle Vue
Your Order No: 12-132-GC-AB

Lab Sample Number				2061789	2061790	2061791	2061792	2061793
Sample Reference				TP106 North	TP106 South	TP106 East	TP106 West	TP106 Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	12	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	49	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	190	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	250	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	0.057	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	2.4	4.5	< 1.0	19	5.3
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	22	15	61	59	3.9
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	160	72	320	300	13
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	290	130	620	520	20
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	470	230	1000	910	43

TPH (C5 - C6)	mg/kg	1	NONE	-	-	-	-	-
TPH (C6 - C8)	mg/kg	0.1	MCERTS	-	-	-	-	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	-	-	-	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	-	-	-	-	-
TPH (C12 - C16)	mg/kg	4	MCERTS	-	-	-	-	-
TPH (C16 - C21)	mg/kg	1	MCERTS	-	-	-	-	-
TPH (C21 - C35)	mg/kg	1	MCERTS	-	-	-	-	-
TPH (C35 - C40)	mg/kg	10	MCERTS	-	-	-	-	-
TPH Total C5 - C40	mg/kg	10	MCERTS	-	-	-	-	-

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-18955

Project / Site name: Belle Vue

Your Order No: 12-132-GC-AB

Lab Sample Number				2061789	2061790	2061791	2061792	2061793
Sample Reference				TP106 North	TP106 South	TP106 East	TP106 West	TP106 Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	3.9	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	10	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	11	< 1.0	< 1.0
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	10	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	22	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	2.8	2.2	< 0.05	3.1	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

Analytical Report Number: 21-18955

Project / Site name: Belle Vue

Your Order No: 12-132-GC-AB

Lab Sample Number				2061789	2061790	2061791	2061792	2061793
Sample Reference				TP106 North	TP106 South	TP106 East	TP106 West	TP106 Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
2-Methylnaphthalene	mg/kg	0.1	NONE	1.7	1.0	< 0.1	1.9	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	1.5	0.80	2.3	2.0	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	10	4.8	7.1	15	0.54
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	4.2	2.0	2.9	6.1	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	9.8	4.7	6.9	14	0.41
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	55	28	45	98	3.3
Anthracene	mg/kg	0.05	MCERTS	15	7.4	10	30	1.1
Carbazole	mg/kg	0.3	MCERTS	2.6	1.5	2.3	4.6	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	2.5	1.5	1.9	6.7	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	82	40	63	160	5.6
Pyrene	mg/kg	0.05	MCERTS	76	40	66	160	5.4
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	41	21	31	82	2.7
Chrysene	mg/kg	0.05	MCERTS	36	16	23	74	2.5
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	33	17	24	74	2.4
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	15	5.4	11	27	0.75
Benzo(a)pyrene	mg/kg	0.05	MCERTS	31	14	24	65	2.0
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	16	7.8	12	36	1.2
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	5.0	2.6	3.6	11	0.38
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	18	9.0	15	38	1.3

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-18955

Project / Site name: Belle Vue

Your Order No: 12-132-GC-AB

Lab Sample Number				2061794	2061795	2061796	2061797	2061798
Sample Reference				TP106 Arisings	TP215 North	TP215 South	TP215 East	TP215 West
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	15	18	18	15
Total mass of sample received	kg	0.001	NONE	0.80	0.80	0.80	0.80	0.80

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.0	-	-	-	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	810	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.14	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	270	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	135	-	-	-	-
Sulphide	mg/kg	1	MCERTS	8.3	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	760	-	-	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.2	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	-	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	23	53	43	58	45
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-	610	520	560	750
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	3.1	3.1	3.4	2.6
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.2	0.8	1.4	1.0
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	2.3
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	57	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	140	1800	550	2000	640
Lead (aqua regia extractable)	mg/kg	1	MCERTS	300	990	510	870	980
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.0	2.6	1.6	2.3	2.9
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	58	69	54	74	63
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	77	71	73	69
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	170	540	360	650	760

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-18955

Project / Site name: Belle Vue

Your Order No: 12-132-GC-AB

Lab Sample Number				2061794	2061795	2061796	2061797	2061798
Sample Reference				TP106 Arisings	TP215 North	TP215 South	TP215 East	TP215 West
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	6.9	8.7	5.2
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	19	9.8	10
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	< 8.0	34	13	14
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	< 8.0	66	39	42
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	< 10	130	71	71

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	25	3.7	18
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	83	230	66	64
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	460	930	450	280
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	810	1100	690	390
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	1400	2300	1200	750

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	-	-	-	-
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	2.6	-	-	-	-
TPH (C12 - C16)	mg/kg	4	MCERTS	18	-	-	-	-
TPH (C16 - C21)	mg/kg	1	MCERTS	150	-	-	-	-
TPH (C21 - C35)	mg/kg	1	MCERTS	210	-	-	-	-
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	-	-	-	-
TPH Total C5 - C40	mg/kg	10	MCERTS	380	-	-	-	-

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-18955

Project / Site name: Belle Vue

Your Order No: 12-132-GC-AB

Lab Sample Number				2061794	2061795	2061796	2061797	2061798
Sample Reference				TP106 Arisings	TP215 North	TP215 South	TP215 East	TP215 West
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	1.8	6.3	24	7.5	8.9
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

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Lab Sample Number				2061794	2061795	2061796	2061797	2061798
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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
2-Methylnaphthalene	mg/kg	0.1	NONE	1.2	4.8	9.3	4.9	5.9
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	0.89	1.9	< 0.05	2.6	2.7
Acenaphthene	mg/kg	0.05	MCERTS	7.3	22	51	23	18
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	3.1	8.3	26	11	8.4
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	7.0	16	36	22	17
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	49	140	230	150	110
Anthracene	mg/kg	0.05	MCERTS	13	31	51	38	27
Carbazole	mg/kg	0.3	MCERTS	2.3	6.2	16	13	6.1
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	2.2	9.5	8.8	8.0	7.4
Fluoranthene	mg/kg	0.05	MCERTS	60	140	240	170	120
Pyrene	mg/kg	0.05	MCERTS	58	150	220	170	110
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	30	75	84	88	63
Chrysene	mg/kg	0.05	MCERTS	23	66	70	74	49
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	25	65	66	80	49
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	7.1	22	31	23	21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	20	55	60	63	43
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	11	30	26	32	24
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	3.7	9.7	8.9	11	8.0
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	12	33	30	36	26

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-18955
Project / Site name: Belle Vue
Your Order No: 12-132-GC-AB

Lab Sample Number				2061799	2061800	2061801	2061802	2061803
Sample Reference				TP215 Base	TP215 Arisings	TP407 North	TP407 South	TP407 East
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	22	12	17	14
Total mass of sample received	kg	0.001	NONE	0.80	0.80	0.80	0.80	0.80

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	Chrysotile	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	Detected	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	< 0.001	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	< 0.001	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	7.7	-	-	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	1800	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-	0.29	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-	570	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-	286	-	-	-
Sulphide	mg/kg	1	MCERTS	-	61	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	3000	-	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	4.6	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	-	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	49	22	18	28
Barium (aqua regia extractable)	mg/kg	1	MCERTS	120	-	390	400	740
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	-	1.4	1.2	1.7
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	-	0.8	1.5	1.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.9	0.8	1.1
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	32	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	79	2500	120	140	250
Lead (aqua regia extractable)	mg/kg	1	MCERTS	44	600	290	480	370
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	3.5	0.8	0.9	0.6
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	25	54	30	33	42
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	41	-	36	34	50
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	61	500	190	320	330

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
o-xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	-	-

Analytical Report Number: 21-18955
Project / Site name: Belle Vue
Your Order No: 12-132-GC-AB

Lab Sample Number				2061799	2061800	2061801	2061802	2061803
Sample Reference				TP215 Base	TP215 Arisings	TP407 North	TP407 South	TP407 East
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	3.9	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	11	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	21	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	36	-	-	-	-
TPH (C5 - C6)	mg/kg	1	NONE	-	< 1.0	-	-	-
TPH (C6 - C8)	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH (C12 - C16)	mg/kg	4	MCERTS	-	89	-	-	-
TPH (C16 - C21)	mg/kg	1	MCERTS	-	550	-	-	-
TPH (C21 - C35)	mg/kg	1	MCERTS	-	1000	-	-	-
TPH (C35 - C40)	mg/kg	10	MCERTS	-	130	-	-	-
TPH Total C5 - C40	mg/kg	10	MCERTS	-	1800	-	-	-
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-18955

Project / Site name: Belle Vue

Your Order No: 12-132-GC-AB

Lab Sample Number				2061799	2061800	2061801	2061802	2061803
Sample Reference				TP215 Base	TP215 Arisings	TP407 North	TP407 South	TP407 East
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	8.9	1.4	0.87	4.0
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

Analytical Report Number: 21-18955

Project / Site name: Belle Vue

Your Order No: 12-132-GC-AB

Lab Sample Number				2061799	2061800	2061801	2061802	2061803
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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	5.3	1.1	0.5	2.4
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	2.3	1.4	0.36	2.7
Acenaphthene	mg/kg	0.05	MCERTS	0.69	28	7.0	2.0	13
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	11	2.7	0.7	5.6
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	0.51	24	6.1	1.5	12
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	3.8	170	60	15	130
Anthracene	mg/kg	0.05	MCERTS	0.89	46	16	4.1	36
Carbazole	mg/kg	0.3	MCERTS	< 0.3	8.9	4.3	1.0	11
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	10	4.9	1.4	10
Fluoranthene	mg/kg	0.05	MCERTS	5.4	200	94	22	170
Pyrene	mg/kg	0.05	MCERTS	5.4	200	86	21	170
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.4	100	45	10	92
Chrysene	mg/kg	0.05	MCERTS	2.2	89	40	10	76
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.3	97	40	9.5	91
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.76	24	16	3.6	21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.0	76	35	8.4	71
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.1	40	20	4.8	36
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.39	13	6.0	1.5	11
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.2	44	20	5.2	38

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-18955

Project / Site name: Belle Vue

Your Order No: 12-132-GC-AB

Lab Sample Number				2061804	2061805	2061806
Sample Reference				TP407 West	TP407 Base	TP407 Arisings
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	45
Moisture Content	%	0.01	NONE	10	11	14
Total mass of sample received	kg	0.001	NONE	0.80	0.80	0.80

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	8.3
Total Cyanide	mg/kg	1	MCERTS	1.3	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	1200
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-	-	0.15
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-	-	310
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-	-	155
Sulphide	mg/kg	1	MCERTS	-	-	7.4
Total Sulphur	mg/kg	50	MCERTS	-	-	850
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	3.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	< 1.0
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	30	7.8	32
Barium (aqua regia extractable)	mg/kg	1	MCERTS	960	110	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.7	0.80	-
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2	0.5	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.1	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	280	25	180
Lead (aqua regia extractable)	mg/kg	1	MCERTS	430	25	420
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	1.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	25	40
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	47	21	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	340	59	230

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-

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Lab Sample Number				2061804	2061805	2061806
Sample Reference				TP407 West	TP407 Base	TP407 Arisings
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Petroleum Hydrocarbons						
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-

TPH (C5 - C6)	mg/kg	1	NONE	-	-	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	-	-	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	-	-	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	-	-	30
TPH (C12 - C16)	mg/kg	4	MCERTS	-	-	83
TPH (C16 - C21)	mg/kg	1	MCERTS	-	-	320
TPH (C21 - C35)	mg/kg	1	MCERTS	-	-	370
TPH (C35 - C40)	mg/kg	10	MCERTS	-	-	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	-	-	800

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

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Lab Sample Number				2061804	2061805	2061806
Sample Reference				TP407 West	TP407 Base	TP407 Arisings
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	27
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2

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Lab Sample Number				2061804	2061805	2061806
Sample Reference				TP407 West	TP407 Base	TP407 Arisings
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				25/10/2021	25/10/2021	25/10/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	11
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	3.4	< 0.05	5.6
Acenaphthene	mg/kg	0.05	MCERTS	17	< 0.05	12
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	6.2	< 0.2	7.9
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	17	< 0.05	16
Azobenzene	mg/kg	0.3	MCERTS	2.7	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	260	0.95	110
Anthracene	mg/kg	0.05	MCERTS	63	0.26	25
Carbazole	mg/kg	0.3	MCERTS	22	< 0.3	6.8
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	19	< 0.3	6.4
Fluoranthene	mg/kg	0.05	MCERTS	330	1.4	130
Pyrene	mg/kg	0.05	MCERTS	310	1.5	120
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	140	0.78	68
Chrysene	mg/kg	0.05	MCERTS	120	0.63	48
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	100	0.75	62
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	55	0.30	12
Benzo(a)pyrene	mg/kg	0.05	MCERTS	110	0.62	48
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	56	0.43	24
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	15	< 0.05	7.7
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	61	0.44	26

U/S = Unsuitable Sample I/S = Insufficient Sample



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Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
2061800	TP215 Arisings		135	Loose Fibres	Chrysotile	< 0.001	< 0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2061789	TP106 North	None Supplied	None Supplied	Brown clay and gravel.
2061790	TP106 South	None Supplied	None Supplied	Brown clay with gravel.
2061791	TP106 East	None Supplied	None Supplied	Brown clay with gravel.
2061792	TP106 West	None Supplied	None Supplied	Brown clay with gravel.
2061793	TP106 Base	None Supplied	None Supplied	Brown clay.
2061794	TP106 Arisings	None Supplied	None Supplied	Brown clay.
2061795	TP215 North	None Supplied	None Supplied	Brown clay and gravel.
2061796	TP215 South	None Supplied	None Supplied	Brown clay and gravel.
2061797	TP215 East	None Supplied	None Supplied	Brown clay and gravel.
2061798	TP215 West	None Supplied	None Supplied	Brown clay and gravel.
2061799	TP215 Base	None Supplied	None Supplied	Brown clay.
2061800	TP215 Arisings	None Supplied	None Supplied	Black loam and clay with gravel.
2061801	TP407 North	None Supplied	None Supplied	Brown loam and clay with gravel.
2061802	TP407 South	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2061803	TP407 East	None Supplied	None Supplied	Brown loam and clay with gravel.
2061804	TP407 West	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation.
2061805	TP407 Base	None Supplied	None Supplied	Brown clay and loam.
2061806	TP407 Arisings	None Supplied	None Supplied	Brown loam and clay with stones.

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Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

Analytical Report Number : 21-18955

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

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Analytical Report Number : 21-21504

Project / Site name:	Belle Vue	Samples received on:	08/11/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	08/11/2021
Your order number:	12-123-GC-AC	Analysis completed by:	16/11/2021
Report Issue Number:	1	Report issued on:	16/11/2021
Samples Analysed:	6 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-21504
Project / Site name: Belle Vue
Your Order No: 12-123-GC-AC

Lab Sample Number				2075225	2075226	2075227	2075228	2075229
Sample Reference				TP106 North	TP106 East	TP106 South	TP106 West	TP106 Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	13	15	14	11
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	0.50	0.50

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	-	-	-
Total Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-	-	-	-	-
Sulphide	mg/kg	1	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent)	mg/kg	4	MCERTS	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	7.5	16	6.5	12	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	70	220	72	120	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	430	1100	340	650	16
TPH (C21 - C35)	mg/kg	1	MCERTS	680	1100	520	680	22
TPH (C35 - C40)	mg/kg	10	MCERTS	290	190	130	210	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	1500	2600	1100	1700	38

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-21504
Project / Site name: Belle Vue
Your Order No: 12-123-GC-AC

Lab Sample Number				2075225	2075226	2075227	2075228	2075229
Sample Reference				TP106 North	TP106 East	TP106 South	TP106 West	TP106 Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
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Analytical Report Number: 21-21504
Project / Site name: Belle Vue
Your Order No: 12-123-GC-AC

Lab Sample Number				2075225	2075226	2075227	2075228	2075229
Sample Reference				TP106 North	TP106 East	TP106 South	TP106 West	TP106 Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	6.8	7.4	4.4	4.7	0.22
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	4.1	4.9	2.3	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	7.4	11	5.0	5.8	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	2.1	2.7	1.2	2.9	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	16	28	15	14	0.41
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	7.4	12	7.3	8.3	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	13	21	12	13	0.34
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	85	160	77	89	2.6
Anthracene	mg/kg	0.05	MCERTS	21	36	20	73	0.65
Carbazole	mg/kg	0.3	MCERTS	5.5	7.6	4.2	4.7	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	0.6	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	4.4	10	5.3	5.4	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	110	210	100	120	3.0
Pyrene	mg/kg	0.05	MCERTS	90	170	88	110	2.8
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	1.2	1.0	1.4	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	48	84	42	47	1.6
Chrysene	mg/kg	0.05	MCERTS	35	70	35	46	1.2
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	41	73	41	48	1.7
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	13	25	18	21	0.84
Benzo(a)pyrene	mg/kg	0.05	MCERTS	33	59	39	46	1.6
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	17	31	18	20	0.67
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	5.3	8.8	5.2	6.2	0.20

Analytical Report Number: 21-21504
 Project / Site name: Belle Vue
 Your Order No: 12-123-GC-AC

Lab Sample Number				2075225	2075226	2075227	2075228	2075229
Sample Reference				TP106 North	TP106 East	TP106 South	TP106 West	TP106 Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	20	35	21	24	0.75

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-21504
Project / Site name: Belle Vue
Your Order No: 12-123-GC-AC

Lab Sample Number				2075230
Sample Reference				TP106 Arisings
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				08/11/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	14
Total mass of sample received	kg	0.001	NONE	0.50

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile
Asbestos in Soil	Type	N/A	ISO 17025	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	0.003
Asbestos Quantification Total	%	0.001	ISO 17025	0.003

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	790
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.090
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	180
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	89.8
Sulphide	mg/kg	1	MCERTS	10
Total Sulphur	mg/kg	50	MCERTS	740
Total Organic Carbon (TOC)	%	0.1	MCERTS	4.7

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	35
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	34
Copper (aqua regia extractable)	mg/kg	1	MCERTS	1900
Lead (aqua regia extractable)	mg/kg	1	MCERTS	390
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.1
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	93
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	270

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	27
TPH (C12 - C16)	mg/kg	4	MCERTS	310
TPH (C16 - C21)	mg/kg	1	MCERTS	1600
TPH (C21 - C35)	mg/kg	1	MCERTS	1300
TPH (C35 - C40)	mg/kg	10	MCERTS	230
TPH Total C5 - C40	mg/kg	10	MCERTS	3500

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0

Analytical Report Number: 21-21504
Project / Site name: Belle Vue
Your Order No: 12-123-GC-AC

Lab Sample Number				2075230
Sample Reference				TP106 Arisings
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				08/11/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1
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Analytical Report Number: 21-21504
Project / Site name: Belle Vue
Your Order No: 12-123-GC-AC

Lab Sample Number				2075230
Sample Reference				TP106 Arisings
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				08/11/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Phenol	mg/kg	0.2	ISO 17025	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	12
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	23
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	4.2
Acenaphthene	mg/kg	0.05	MCERTS	68
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	35
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2
Fluorene	mg/kg	0.05	MCERTS	51
Azobenzene	mg/kg	0.3	MCERTS	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	420
Anthracene	mg/kg	0.05	MCERTS	100
Carbazole	mg/kg	0.3	MCERTS	22
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	35
Fluoranthene	mg/kg	0.05	MCERTS	470
Pyrene	mg/kg	0.05	MCERTS	410
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	3.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	170
Chrysene	mg/kg	0.05	MCERTS	170
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	170
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	74
Benzo(a)pyrene	mg/kg	0.05	MCERTS	160
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	69
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	22

Analytical Report Number: 21-21504
 Project / Site name: Belle Vue
 Your Order No: 12-123-GC-AC

Lab Sample Number				2075230
Sample Reference				TP106 Arisings
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				08/11/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	79

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-21504
Project / Site name: Belle Vue
Your Order No: 12-123-GC-AC

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
2075230	TP106 Arisings		146	Loose Fibres	Chrysotile	0.003	0.003

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 21-21504

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2075225	TP106 North	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2075226	TP106 East	None Supplied	None Supplied	Brown clay and loam with gravel.
2075227	TP106 South	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2075228	TP106 West	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.
2075229	TP106 Base	None Supplied	None Supplied	Brown clay and loam with gravel.
2075230	TP106 Arisings	None Supplied	None Supplied	Brown loam and gravel with vegetation.

Analytical Report Number : 21-21504
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025

Analytical Report Number : 21-21504
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

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Analytical Report Number : 21-15052

Project / Site name:	Belle Vue	Samples received on:	07/10/2021
Your job number:	12 123	Samples instructed on/ Analysis started on:	07/10/2021
Your order number:	12123 GC Z	Analysis completed by:	15/10/2021
Report Issue Number:	1	Report issued on:	15/10/2021
Samples Analysed:	9 soil samples		

Signed:

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.6	3.4	2.7	15	15
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	1.0	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	11.4	8.7	12.2	-	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	6400	6000	6800	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.94	1.2	0.43	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	1900	2400	870	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	941	1210	434	-	-
Sulphide	mg/kg	1	MCERTS	< 1.0	8.4	10	-	-
Total Sulphur	mg/kg	50	MCERTS	2700	2800	2100	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.3	2.6	0.6	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.67	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.34	3.0	2.0	-	-
Fluorene	mg/kg	0.05	MCERTS	0.38	2.1	1.9	-	-
Phenanthrene	mg/kg	0.05	MCERTS	3.8	17	17	-	-
Anthracene	mg/kg	0.05	MCERTS	0.84	4.6	3.9	-	-
Fluoranthene	mg/kg	0.05	MCERTS	4.8	24	18	-	-
Pyrene	mg/kg	0.05	MCERTS	4.2	23	15	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.1	14	7.7	-	-
Chrysene	mg/kg	0.05	MCERTS	1.7	8.7	6.1	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.5	11	6.7	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.91	4.8	3.2	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.4	9.1	4.6	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.70	5.3	2.4	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.4	0.74	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.79	6.0	2.4	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	23.4	134	92.0	-	-
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Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.4	13	4.6	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.7	0.3	-	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	30	16	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	20	42	9.0	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	49	13	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	26	11	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	58	91	96	-	-

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	6.9	< 2.0	-	-
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	34	18	-	-
TPH (C16 - C21)	mg/kg	1	MCERTS	15	200	90	-	-
TPH (C21 - C35)	mg/kg	1	MCERTS	62	1500	360	-	-
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	500	140	-	-
TPH Total C5 - C40	mg/kg	10	MCERTS	77	2300	600	-	-

Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number	2039798	2039799	2039800	2039801	2039802
Sample Reference	SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Tri bromomethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0

Analytical Report Number: 21-15052
 Project / Site name: Belle Vue
 Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0

Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	14
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1	13
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	2.0
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	0.34	31
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	13
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	0.23	21
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	1.8	180
Anthracene	mg/kg	0.05	MCERTS	-	-	-	0.42	42
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	10
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	< 0.3	10
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	2.0	190
Pyrene	mg/kg	0.05	MCERTS	-	-	-	2.0	170
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	1.1	96
Chrysene	mg/kg	0.05	MCERTS	-	-	-	0.82	83
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.90	75
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.36	29
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.72	61
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.37	37
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	11

Analytical Report Number: 21-15052
 Project / Site name: Belle Vue
 Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	0.40	41

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	17	16	18
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	-	8.3
Total Cyanide	mg/kg	1	MCERTS	-	-	-	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	2200
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-	-	-	0.42
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-	-	-	840
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-	-	-	419
Sulphide	mg/kg	1	MCERTS	-	-	-	23
Total Sulphur	mg/kg	50	MCERTS	-	-	-	2100
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	5.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-	-	-
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Analytical Report Number: 21-15052
 Project / Site name: Belle Vue
 Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Heavy Metals / Metalloids							
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	38
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	2.3
Chromium (hexavalent)	mg/kg	4	MCERTS	-	-	-	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	380
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	520
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	2.1
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	50
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	440

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	-	-	-	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	-	-	-	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	-	-	-	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	-	-	-	7.1
TPH (C12 - C16)	mg/kg	4	MCERTS	-	-	-	35
TPH (C16 - C21)	mg/kg	1	MCERTS	-	-	-	190
TPH (C21 - C35)	mg/kg	1	MCERTS	-	-	-	290
TPH (C35 - C40)	mg/kg	10	MCERTS	-	-	-	22
TPH Total C5 - C40	mg/kg	10	MCERTS	-	-	-	540

Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
VOCs							
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-15052
 Project / Site name: Belle Vue
 Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
SVOCs							
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	10	40	57	12
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	12	53	88	10
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	2.4	12	5.8	3.1
Acenaphthene	mg/kg	0.05	MCERTS	24	100	170	37
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	9.4	53	98	14
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	16	80	130	24
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	130	580	410	190
Anthracene	mg/kg	0.05	MCERTS	35	150	210	49
Carbazole	mg/kg	0.3	MCERTS	7.6	33	57	11
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	8.1	28	26	14
Fluoranthene	mg/kg	0.05	MCERTS	150	550	350	200
Pyrene	mg/kg	0.05	MCERTS	150	530	390	190
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	85	320	300	110
Chrysene	mg/kg	0.05	MCERTS	73	220	260	98
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	63	250	240	96
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	33	58	350	27
Benzo(a)pyrene	mg/kg	0.05	MCERTS	55	190	130	76
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	31	100	110	43
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	9.1	32	10	13

Analytical Report Number: 21-15052
 Project / Site name: Belle Vue
 Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	35	110	8.9	48

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-15052

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2039798	SW-CRUSH-004	None Supplied	None Supplied	Light grey rubble with brick.**
2039799	SW-CRUSH-005	None Supplied	None Supplied	Light grey rubble with clinker and tar.**
2039800	SW-CRUSH-006	None Supplied	None Supplied	Light grey rubble with brick.**
2039801	TP215 BASE	None Supplied	None Supplied	Brown clay with gravel.
2039802	TP215 NORTH	None Supplied	None Supplied	Brown clay and sand with gravel.
2039803	TP215 EAST	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2039804	TP215 SOUTH	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2039805	TP215 WEST	None Supplied	None Supplied	Brown clay and sand with gravel.
2039806	TP215 ARISING	None Supplied	None Supplied	Brown clay and sand with gravel.

** Non MCERTS Matrix

Analytical Report Number : 21-15052
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS

Analytical Report Number : 21-15052
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Analytical Report Number : 21-15052
Project / Site name: Belle Vue

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP215 ARISINGS	None Supplied	S	2039806	c	Hexavalent chromium in soil	L080-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Monohydric phenols in soil	L080-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Organic matter (Automated) in soil	L009-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Sulphide in soil	L010-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	TPH in (Soil)	L076-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Total cyanide in soil	L080-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Total organic carbon (Automated) in soil	L009-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Volatile organic compounds in soil	L073B-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	pH in soil (automated)	L099-PL	c
TP215 BASE	None Supplied	S	2039801	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 BASE	None Supplied	S	2039801	c	Volatile organic compounds in soil	L073B-PL	c
TP215 EAST	None Supplied	S	2039803	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 EAST	None Supplied	S	2039803	c	Volatile organic compounds in soil	L073B-PL	c
TP215 NORTH	None Supplied	S	2039802	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 NORTH	None Supplied	S	2039802	c	Volatile organic compounds in soil	L073B-PL	c
TP215 SOUTH	None Supplied	S	2039804	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 SOUTH	None Supplied	S	2039804	c	Volatile organic compounds in soil	L073B-PL	c
TP215 WEST	None Supplied	S	2039805	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 WEST	None Supplied	S	2039805	c	Volatile organic compounds in soil	L073B-PL	c



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Analytical Report Number : 21-15052

Replaces Analytical Report Number: 21-15052, issue no. 1
Additional analysis undertaken.

Project / Site name:	Belle Vue	Samples received on:	07/10/2021
Your job number:	12 123	Samples instructed on/ Analysis started on:	07/10/2021
Your order number:	12123 GC Z	Analysis completed by:	02/11/2021
Report Issue Number:	2	Report issued on:	02/11/2021
Samples Analysed:	9 soil samples		

Signed:

Agneszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-15052
Project / Site name: Belle Vue
Your Order No: 12123 GC Z

Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.6	3.4	2.7	15	15
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50	1.0	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	11.4	8.7	12.2	-	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	6400	6000	6800	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.94	1.2	0.43	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	1900	2400	870	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	941	1210	434	-	-
Sulphide	mg/kg	1	MCERTS	< 1.0	8.4	10	-	-
Total Sulphur	mg/kg	50	MCERTS	2700	2800	2100	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.3	2.6	0.6	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.67	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.34	3.0	2.0	-	-
Fluorene	mg/kg	0.05	MCERTS	0.38	2.1	1.9	-	-
Phenanthrene	mg/kg	0.05	MCERTS	3.8	17	17	-	-
Anthracene	mg/kg	0.05	MCERTS	0.84	4.6	3.9	-	-
Fluoranthene	mg/kg	0.05	MCERTS	4.8	24	18	-	-
Pyrene	mg/kg	0.05	MCERTS	4.2	23	15	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.1	14	7.7	-	-
Chrysene	mg/kg	0.05	MCERTS	1.7	8.7	6.1	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.5	11	6.7	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.91	4.8	3.2	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.4	9.1	4.6	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.70	5.3	2.4	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.4	0.74	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.79	6.0	2.4	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	23.4	134	92.0	-	-
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Analytical Report Number: 21-15052

Project / Site name: Belle Vue

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Lab Sample Number				2039798	2039799	2039800	2039801	2039802
Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.4	13	4.6	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.7	0.3	-	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	30	16	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	20	42	9.0	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	49	13	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	26	11	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	58	91	96	-	-

Speciated Mercury (Dry Weight)

Inorganic Mercury	mg/kg	0.005	NONE	-	-	-	-	-
Organo-Mercury Species (including Methyl Hg)	mg/kg	0.005	NONE	-	-	-	-	-
Elemental Mercury	mg/kg	0.005	NONE	-	-	-	-	-

Speciated Mercury (Dry Weight)

F1 - Water soluble	mg/kg	0.005	NONE	-	-	-	-	-
F2 - Weak acid	mg/kg	0.005	NONE	-	-	-	-	-
F3 - Organo- complexed	mg/kg	0.005	NONE	-	-	-	-	-
F4 - Strongly complexed	mg/kg	0.005	NONE	-	-	-	-	-
F5 - Mineral bound	mg/kg	0.005	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	-	-
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	6.9	< 2.0	-	-
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	34	18	-	-
TPH (C16 - C21)	mg/kg	1	MCERTS	15	200	90	-	-
TPH (C21 - C35)	mg/kg	1	MCERTS	62	1500	360	-	-
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	500	140	-	-
TPH Total C5 - C40	mg/kg	10	MCERTS	77	2300	600	-	-

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Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0

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Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0

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Sample Reference				SW-CRUSH-004	SW-CRUSH-005	SW-CRUSH-006	TP215 BASE	TP215 NORTH
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	14
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1	13
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	2.0
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	0.34	31
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	13
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	0.23	21
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	1.8	180
Anthracene	mg/kg	0.05	MCERTS	-	-	-	0.42	42
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	10
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	< 0.3	10
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	2.0	190
Pyrene	mg/kg	0.05	MCERTS	-	-	-	2.0	170
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	1.1	96
Chrysene	mg/kg	0.05	MCERTS	-	-	-	0.82	83
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.90	75
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.36	29
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.72	61

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Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/10/2021	06/10/2021	06/10/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Indeno(1,2,3-cd)pyrene				mg/kg	0.05	MCERTS	-	37
Dibenz(a,h)anthracene				mg/kg	0.05	MCERTS	-	11
Benzo(ghi)perylene				mg/kg	0.05	MCERTS	-	41

U/S = Unsuitable Sample I/S = Insufficient Sample

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Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	17	16	18
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	-	8.3
Total Cyanide	mg/kg	1	MCERTS	-	-	-	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	2200
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-	-	-	0.42
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-	-	-	840
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-	-	-	419
Sulphide	mg/kg	1	MCERTS	-	-	-	23
Total Sulphur	mg/kg	50	MCERTS	-	-	-	2100
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	5.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-	-	-
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Analytical Report Number: 21-15052

Project / Site name: Belle Vue

Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Heavy Metals / Metalloids							
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	38
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	2.3
Chromium (hexavalent)	mg/kg	4	MCERTS	-	-	-	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	380
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	520
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	2.1
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	50
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	440

Speciated Mercury (Dry Weight)

Inorganic Mercury	mg/kg	0.005	NONE	-	-	-	1.257
Organo-Mercury Species (including Methyl Hg)	mg/kg	0.005	NONE	-	-	-	0.121
Elemental Mercury	mg/kg	0.005	NONE	-	-	-	0.496

Speciated Mercury (Dry Weight)

F1 - Water soluble	mg/kg	0.005	NONE	-	-	-	0.112
F2 - Weak acid	mg/kg	0.005	NONE	-	-	-	0.092
F3 - Organo- complexed	mg/kg	0.005	NONE	-	-	-	0.121
F4 - Strongly complexed	mg/kg	0.005	NONE	-	-	-	0.496
F5 - Mineral bound	mg/kg	0.005	NONE	-	-	-	1.053

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	-	-	-	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	-	-	-	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	-	-	-	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	-	-	-	7.1
TPH (C12 - C16)	mg/kg	4	MCERTS	-	-	-	35
TPH (C16 - C21)	mg/kg	1	MCERTS	-	-	-	190
TPH (C21 - C35)	mg/kg	1	MCERTS	-	-	-	290
TPH (C35 - C40)	mg/kg	10	MCERTS	-	-	-	22
TPH Total C5 - C40	mg/kg	10	MCERTS	-	-	-	540

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Your Order No: 12123 GC Z

Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
VOCs							
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0

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Project / Site name: Belle Vue

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Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

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Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
SVOCs							
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	10	40	57	12
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	12	53	88	10
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	2.4	12	5.8	3.1
Acenaphthene	mg/kg	0.05	MCERTS	24	100	170	37
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	9.4	53	98	14
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	16	80	130	24
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	130	580	410	190
Anthracene	mg/kg	0.05	MCERTS	35	150	210	49
Carbazole	mg/kg	0.3	MCERTS	7.6	33	57	11
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	8.1	28	26	14
Fluoranthene	mg/kg	0.05	MCERTS	150	550	350	200
Pyrene	mg/kg	0.05	MCERTS	150	530	390	190
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	85	320	300	110
Chrysene	mg/kg	0.05	MCERTS	73	220	260	98
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	63	250	240	96
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	33	58	350	27
Benzo(a)pyrene	mg/kg	0.05	MCERTS	55	190	130	76

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Lab Sample Number				2039803	2039804	2039805	2039806
Sample Reference				TP215 EAST	TP215 SOUTH	TP215 WEST	TP215 ARISINGS
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/09/2021	06/09/2021	06/09/2021	06/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	31	100	110	43
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	9.1	32	10	13
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	35	110	8.9	48

U/S = Unsuitable Sample I/S = Insufficient Sample

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Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2039798	SW-CRUSH-004	None Supplied	None Supplied	Light grey rubble with brick.**
2039799	SW-CRUSH-005	None Supplied	None Supplied	Light grey rubble with clinker and tar.**
2039800	SW-CRUSH-006	None Supplied	None Supplied	Light grey rubble with brick.**
2039801	TP215 BASE	None Supplied	None Supplied	Brown clay with gravel.
2039802	TP215 NORTH	None Supplied	None Supplied	Brown clay and sand with gravel.
2039803	TP215 EAST	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2039804	TP215 SOUTH	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2039805	TP215 WEST	None Supplied	None Supplied	Brown clay and sand with gravel.
2039806	TP215 ARISING	None Supplied	None Supplied	Brown clay and sand with gravel.

** Non MCERTS Matrix

Analytical Report Number : 21-15052

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS

Analytical Report Number : 21-15052

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated Mercury in soil by Millennium Merlin Ana	Determination of Speciated Mercury in soil by Millennium Merlin Analyzer	In-house method	L085-PL	Dry	NONE
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Sample Deviation Report



Analytical Report Number : 21-15052

Project / Site name: Belle Vue

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP215 ARISINGS	None Supplied	S	2039806	c	Hexavalent chromium in soil	L080-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Monohydric phenols in soil	L080-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Organic matter (Automated) in soil	L009-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Sulphide in soil	L010-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	TPH in (Soil)	L076-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Total cyanide in soil	L080-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Total organic carbon (Automated) in soil	L009-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	Volatile organic compounds in soil	L073B-PL	c
TP215 ARISINGS	None Supplied	S	2039806	c	pH in soil (automated)	L099-PL	c
TP215 BASE	None Supplied	S	2039801	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 BASE	None Supplied	S	2039801	c	Volatile organic compounds in soil	L073B-PL	c
TP215 EAST	None Supplied	S	2039803	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 EAST	None Supplied	S	2039803	c	Volatile organic compounds in soil	L073B-PL	c
TP215 NORTH	None Supplied	S	2039802	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 NORTH	None Supplied	S	2039802	c	Volatile organic compounds in soil	L073B-PL	c
TP215 SOUTH	None Supplied	S	2039804	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 SOUTH	None Supplied	S	2039804	c	Volatile organic compounds in soil	L073B-PL	c
TP215 WEST	None Supplied	S	2039805	c	Semi-volatile organic compounds in soil	L064-PL	c
TP215 WEST	None Supplied	S	2039805	c	Volatile organic compounds in soil	L073B-PL	c



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Analytical Report Number : 21-93982

Replaces Analytical Report Number: 21-93982, issue no. 1
Client references/information amended.

Project / Site name:	Belle Vue	Samples received on:	18/08/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	19/08/2021
Your order number:	12-123-GC-R	Analysis completed by:	26/08/2021
Report Issue Number:	2	Report issued on:	01/09/2021
Samples Analysed:	6 soil samples		

Signed:

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-93982
 Project / Site name: Belle Vue
 Your Order No: 12-123-GC-R

Lab Sample Number				1979034	1979035	1979036	1979037	1979038
Sample Reference				TP303 N	TP303 E	TP303 S	TP303 W	TP303 Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/08/2021	18/08/2021	18/08/2021	18/08/2021	18/08/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	-	-	-	-	-
Moisture Content	%	0.01	NONE	-	-	-	-	-
Total mass of sample received	kg	0.001	NONE	-	-	-	-	-

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	-	-	-
Total Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	-	-	-	-	-
Sulphide	mg/kg	1	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	-	-	-	-
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Analytical Report Number: 21-93982

Project / Site name: Belle Vue

Your Order No: 12-123-GC-R

Lab Sample Number				1979034	1979035	1979036	1979037	1979038
Sample Reference				TP303 N	TP303 E	TP303 S	TP303 W	TP303 Base
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/08/2021	18/08/2021	18/08/2021	18/08/2021	18/08/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent)	mg/kg	4	MCERTS	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	-	-	-	-	-
TPH (C6 - C8)	mg/kg	0.1	MCERTS	-	-	-	-	-
TPH (C8 - C10)	mg/kg	0.1	MCERTS	-	-	-	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	-	-	-	-	-
TPH (C12 - C16)	mg/kg	4	MCERTS	-	-	-	-	-
TPH (C16 - C21)	mg/kg	1	MCERTS	-	-	-	-	-
TPH (C21 - C35)	mg/kg	1	MCERTS	-	-	-	-	-
TPH (C35 - C40)	mg/kg	10	MCERTS	-	-	-	-	-
TPH Total C5 - C40	mg/kg	10	MCERTS	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-93982

Project / Site name: Belle Vue

Your Order No: 12-123-GC-R

Lab Sample Number				1979039
Sample Reference				TP303 Stockpile
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				18/08/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	8.5
Total mass of sample received	kg	0.001	NONE	0.50

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1600
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.098
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	200
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	97.8
Sulphide	mg/kg	1	MCERTS	< 1.0
Total Sulphur	mg/kg	50	MCERTS	950

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.99
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	2.1
Pyrene	mg/kg	0.05	MCERTS	1.2
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.0
Chrysene	mg/kg	0.05	MCERTS	1.2
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.6
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.45
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.45
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.35
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.42

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	9.70
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Analytical Report Number: 21-93982

Project / Site name: Belle Vue

Your Order No: 12-123-GC-R

Lab Sample Number				1979039
Sample Reference				TP303 Stockpile
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				18/08/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	29
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	240
Lead (aqua regia extractable)	mg/kg	1	MCERTS	110
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	41
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	86

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	9.2
TPH (C21 - C35)	mg/kg	1	MCERTS	17
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	27

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-93982
Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1979039	TP303 Stockpile	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 21-93982

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-93982
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Sample Deviation Report



Analytical Report Number : 21-93982

Project / Site name: Belle Vue

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP303 Stockpile	None Supplied	S	1979039	b	Monohydric phenols in soil	L080-PL	b
TP303 Stockpile	None Supplied	S	1979039	b	Speciated EPA-16 PAHs in soil	L064-PL	b
TP303 Stockpile	None Supplied	S	1979039	b	TPH in (Soil)	L076-PL	b



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Analytical Report Number : 21-18938

Project / Site name:	Belle Vue	Samples received on:	26/10/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	26/10/2021
Your order number:	12-123-GC-AC	Analysis completed by:	01/11/2021
Report Issue Number:	1	Report issued on:	02/11/2021
Samples Analysed:	1 soil sample		

Signed:

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-18938

Project / Site name: Belle Vue

Your Order No: 12-123-GC-AC

Lab Sample Number				2061661
Sample Reference				Import clay 001
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				25/10/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	15
Total mass of sample received	kg	0.001	NONE	0.30

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.0
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	320
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.026
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	52
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	26.1
Sulphide	mg/kg	1	MCERTS	< 1.0
Total Sulphur	mg/kg	50	MCERTS	140
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.4

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80
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Analytical Report Number: 21-18938

Project / Site name: Belle Vue

Your Order No: 12-123-GC-AC

Lab Sample Number				2061661
Sample Reference				Import clay 001
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				25/10/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	11
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	32
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	59

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0
TPH (C21 - C35)	mg/kg	1	MCERTS	< 1.0
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10
TPH Total C5 - C40	mg/kg	10	MCERTS	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-18938
Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2061661	Import clay 001	None Supplied	None Supplied	Brown clay with gravel.

Analytical Report Number : 21-18938

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-18938
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

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Analytical Report Number : 21-25981

Project / Site name:	Belle Vue	Samples received on:	29/11/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	29/11/2021
Your order number:	000075	Analysis completed by:	06/12/2021
Report Issue Number:	1	Report issued on:	06/12/2021
Samples Analysed:	2 soil samples		

Signed

Izabela Wójcik
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-25981
Project / Site name: Belle Vue
Your Order No: 000075

Lab Sample Number				2099561	2099562
Sample Reference				Clay Import 002	Clay Import 003
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				29/11/2021	29/11/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	15
Total mass of sample received	kg	0.001	NONE	0.50	0.50

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.6	10.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	610	1200
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.16	0.23
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	320	450
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	158	226
Sulphide	mg/kg	1	MCERTS	< 1.0	1.5
Total Sulphur	mg/kg	50	MCERTS	440	680
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.9	1.0

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.43	0.69
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.30
Fluoranthene	mg/kg	0.05	MCERTS	0.38	0.65
Pyrene	mg/kg	0.05	MCERTS	0.37	0.60
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.28
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.27
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.28
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.17
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.27
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	1.18	3.51
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	7.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	36	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	31	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24	27
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	35	24
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	64	74

Analytical Report Number: 21-25981
Project / Site name: Belle Vue
Your Order No: 000075

Lab Sample Number				2099561	2099562
Sample Reference				Clay Import 002	Clay Import 003
Sample Number				None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied
Date Sampled				29/11/2021	29/11/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPH (C5 - C6) HS_ID_TOTAL	mg/kg	1	NONE	< 1.0	< 1.0
TPH (C6 - C8) HS_ID_TOTAL	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH (C8 - C10) HS_ID_TOTAL	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH (C10 - C12) EH_CU_ID_TOTAL	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH (C12 - C16) EH_CU_ID_TOTAL	mg/kg	4	MCERTS	< 4.0	< 4.0
TPH (C16 - C21) EH_CU_ID_TOTAL	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH (C21 - C35) EH_CU_ID_TOTAL	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH (C35 - C40) EH_CU_ID_TOTAL	mg/kg	10	MCERTS	< 10	< 10
TPH Total C5 - C40 EH_CU+HS_ID_TOTAL	mg/kg	10	MCERTS	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-25981

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2099561	Clay Import 002	None Supplied	None Supplied	Brown clay with gravel.
2099562	Clay Import 003	None Supplied	None Supplied	Brown clay and sand with vegetation and gravel

Analytical Report Number : 21-25981

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Analytical Report Number : 21-25981

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

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Analytical Report Number : 21-29879

Project / Site name:	Belle Vue	Samples received on:	17/12/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	17/12/2021
Your order number:	000173	Analysis completed by:	24/12/2021
Report Issue Number:	1	Report issued on:	24/12/2021
Samples Analysed:	3 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-29879
Project / Site name: Belle Vue
Your Order No: 000173

Lab Sample Number				2120943	2120944	2120945
Sample Reference				Class 6 Import 001	Class 6 Import 002	Class 6 Import 003
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.5	12	8.5
Total mass of sample received	kg	0.001	NONE	0.50	0.50	0.50

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KSZ	KSZ	KSZ

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.8	8.7	8.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	320	550	200
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.084	0.19	0.058
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	170	380	120
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	83.5	191	57.6
Sulphide	mg/kg	1	MCERTS	5.1	1.6	< 1.0
Total Sulphur	mg/kg	50	MCERTS	130	190	100
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.3	0.3	0.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.20	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.59	1.3	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.27	0.31	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	2.9	1.7	< 0.05
Pyrene	mg/kg	0.05	MCERTS	2.7	1.6	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.0	0.76	< 0.05
Chrysene	mg/kg	0.05	MCERTS	1.6	0.66	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.4	0.58	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.61	0.30	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.2	0.57	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.66	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.21	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.54	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	14.8	7.77	< 0.80
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Analytical Report Number: 21-29879
Project / Site name: Belle Vue
Your Order No: 000173

Lab Sample Number				2120943	2120944	2120945
Sample Reference				Class 6 Import 001	Class 6 Import 002	Class 6 Import 003
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	2.0	2.4	2.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.3	0.3
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	13	13	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	17	13
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	24	17
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	17	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	44	54	46

Petroleum Hydrocarbons

TPH (C5 - C6) HS ID TOTAL	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0
TPH (C6 - C8) HS ID TOTAL	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C8 - C10) HS ID TOTAL	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1
TPH (C10 - C12) EH CU ID TOTAL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH (C12 - C16) EH CU ID TOTAL	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
TPH (C16 - C21) EH CU ID TOTAL	mg/kg	1	MCERTS	19	15	< 1.0
TPH (C21 - C35) EH CU ID TOTAL	mg/kg	1	MCERTS	27	23	< 1.0
TPH (C35 - C40) EH CU ID TOTAL	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH Total C5 - C40 EH CU+HS ID TOTAL	mg/kg	10	MCERTS	46	38	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-29879

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2120943	lass 6 Import 00	None Supplied	None Supplied	Brown clay and loam with gravel.
2120944	lass 6 Import 00	None Supplied	None Supplied	Brown clay and loam with gravel.
2120945	lass 6 Import 00	None Supplied	None Supplied	Brown clay and loam with gravel.

Analytical Report Number : 21-29879

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-29879
Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Analytical Report Number : 21-29879

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total



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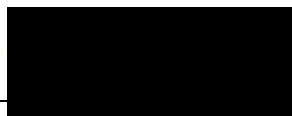
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Analytical Report Number : 22-42991

Project / Site name:	Belle Vue	Samples received on:	02/03/2022
Your job number:	12-123	Samples instructed on/ Analysis started on:	02/03/2022
Your order number:	000805	Analysis completed by:	09/03/2022
Report Issue Number:	1	Report issued on:	09/03/2022
Samples Analysed:	6 soil samples		

Signed:



Izabela Wójcik
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-42991
Project / Site name: Belle Vue
Your Order No: 000805

Lab Sample Number				2191340	2191341	2191342	2191343	2191344
Sample Reference				Import 201	Import 202	Import 203	Import 204	Import 205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	14	14	14	14
Total mass of sample received	kg	0.001	NONE	0.40	0.40	0.40	0.40	0.40

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SFS	SFS	SFS	SFS	SFS

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.0	7.8	8.3	8.0	8.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	130	200	200	120	160
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.021	0.024	0.029	0.024	0.023
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	41	48	59	48	46
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	20.5	24.1	29.3	23.9	22.8
Sulphide	mg/kg	1	MCERTS	1.3	< 1.0	< 1.0	< 1.0	2.1
Total Sulphur	mg/kg	50	MCERTS	100	90	130	130	110
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.5	0.6	0.5	0.5	0.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.27	0.29	0.36	0.22	0.30
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.32	0.32	0.46	0.27	0.36
Pyrene	mg/kg	0.05	MCERTS	0.30	0.30	0.43	0.26	0.36
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.24	< 0.05	0.22
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.30	< 0.05	0.22
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.24	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.16	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.22	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	0.89	0.91	2.41	< 0.80	1.46
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Analytical Report Number: 22-42991
Project / Site name: Belle Vue
Your Order No: 000805

Lab Sample Number				2191340	2191341	2191342	2191343	2191344
Sample Reference				Import 201	Import 202	Import 203	Import 204	Import 205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.7	7.8	6.6	8.7	6.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	NONE	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	11	8.8	12	13	9.4
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22	19	24	26	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	25	21	25	25	22
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	11	15	16	13
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	43	37	45	51	37

Petroleum Hydrocarbons

TPH (C5 - C6) <small>HS_1D_TOTAL</small>	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8) <small>HS_1D_TOTAL</small>	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10) <small>HS_1D_TOTAL</small>	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12) <small>EH_CU_1D_TOTAL</small>	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16) <small>EH_CU_1D_TOTAL</small>	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21) <small>EH_CU_1D_TOTAL</small>	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C21 - C35) <small>EH_CU_1D_TOTAL</small>	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C35 - C40) <small>EH_CU_1D_TOTAL</small>	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C40 <small>EH_CU+HS_1D_TOTAL</small>	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 22-42991

Project / Site name: Belle Vue

Your Order No: 000805

Lab Sample Number				2191345
Sample Reference				Import 206
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				02/03/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	15
Total mass of sample received	kg	0.001	NONE	0.40

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SFS

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	190
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.035
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	70
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	34.9
Sulphide	mg/kg	1	MCERTS	2.0
Total Sulphur	mg/kg	50	MCERTS	150
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.27
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.32
Pyrene	mg/kg	0.05	MCERTS	0.31
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.20
Chrysene	mg/kg	0.05	MCERTS	0.22
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	1.32
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Analytical Report Number: 22-42991

Project / Site name: Belle Vue

Your Order No: 000805

Lab Sample Number				2191345
Sample Reference				Import 206
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				02/03/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	NONE	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32
Lead (aqua regia extractable)	mg/kg	1	MCERTS	25
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	65

Petroleum Hydrocarbons

TPH (C5 - C6) <small>HS_ID_TOTAL</small>	mg/kg	1	NONE	< 1.0
TPH (C6 - C8) <small>HS_ID_TOTAL</small>	mg/kg	0.1	MCERTS	< 0.1
TPH (C8 - C10) <small>HS_ID_TOTAL</small>	mg/kg	0.1	MCERTS	< 0.1
TPH (C10 - C12) <small>EH_CU_ID_TOTAL</small>	mg/kg	2	MCERTS	< 2.0
TPH (C12 - C16) <small>EH_CU_ID_TOTAL</small>	mg/kg	4	MCERTS	< 4.0
TPH (C16 - C21) <small>EH_CU_ID_TOTAL</small>	mg/kg	1	MCERTS	4.6
TPH (C21 - C35) <small>EH_CU_ID_TOTAL</small>	mg/kg	1	MCERTS	8.1
TPH (C35 - C40) <small>EH_CU_ID_TOTAL</small>	mg/kg	10	MCERTS	< 10
TPH Total C5 - C40 <small>EH_CU+HS_ID_TOTAL</small>	mg/kg	10	MCERTS	13

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 22-42991

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2191340	Import 201	None Supplied	None Supplied	Brown clay and sand with vegetation and gravel
2191341	Import 202	None Supplied	None Supplied	Brown clay and sand with vegetation and gravel
2191342	Import 203	None Supplied	None Supplied	Brown clay and sand with vegetation and gravel
2191343	Import 204	None Supplied	None Supplied	Brown clay and loam with gravel.
2191344	Import 205	None Supplied	None Supplied	Brown clay and loam with vegetation and gravel
2191345	Import 206	None Supplied	None Supplied	Brown clay and loam with vegetation and gravel

Analytical Report Number : 22-42991

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Analytical Report Number : 22-42991

Project / Site name: Belle Vue

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total



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Analytical Report Number : 21-12426

Project / Site name:	Belle Vue	Samples received on:	24/09/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	24/09/2021
Your order number:	12-123-GC-X	Analysis completed by:	01/10/2021
Report Issue Number:	1	Report issued on:	01/10/2021
Samples Analysed:	1 soil sample		

Signed:



Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-12426

Project / Site name: Belle Vue

Your Order No: 12-123-GC-X

Lab Sample Number				2024571
Sample Reference				JKW-WAC-001
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				24/09/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	4.2
Total mass of sample received	kg	0.001	NONE	1.5

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1100
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.081
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	160
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	81.2
Sulphide	mg/kg	1	MCERTS	10
Total Sulphur	mg/kg	50	MCERTS	940
Total Organic Carbon (TOC)	%	0.1	MCERTS	5.2

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	1.3
Acenaphthylene	mg/kg	0.05	MCERTS	0.38
Acenaphthene	mg/kg	0.05	MCERTS	12
Fluorene	mg/kg	0.05	MCERTS	8.6
Phenanthrene	mg/kg	0.05	MCERTS	59
Anthracene	mg/kg	0.05	MCERTS	14
Fluoranthene	mg/kg	0.05	MCERTS	56
Pyrene	mg/kg	0.05	MCERTS	49
Benzo(a)anthracene	mg/kg	0.05	MCERTS	25
Chrysene	mg/kg	0.05	MCERTS	21
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	24
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	10
Benzo(a)pyrene	mg/kg	0.05	MCERTS	21
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	10
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.7
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	11

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	325
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Analytical Report Number: 21-12426

Project / Site name: Belle Vue

Your Order No: 12-123-GC-X

Lab Sample Number				2024571
Sample Reference				JKW-WAC-001
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				24/09/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	27
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.7
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	110
Lead (aqua regia extractable)	mg/kg	1	MCERTS	230
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	3.7
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	170

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	71
TPH (C16 - C21)	mg/kg	1	MCERTS	180
TPH (C21 - C35)	mg/kg	1	MCERTS	360
TPH (C35 - C40)	mg/kg	10	MCERTS	100
TPH Total C5 - C40	mg/kg	10	MCERTS	710

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number : 21-12426
Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2024571	JKW-WAC-001	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 21-12426

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-12426
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-12428

Project / Site name:	Belle Vue	Samples received on:	24/09/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	24/09/2021
Your order number:	12-123-GC-X	Analysis completed by:	01/10/2021
Report Issue Number:	1	Report issued on:	01/10/2021
Samples Analysed:	1 wac multi sample		

Signed

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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Waste Acceptance Criteria Analytical Results								
Report No:	21-12428							
					Client: E3P			
Location	Belle Vue							
Lab Reference (Sample Number)	2024573				Landfill Waste Acceptance Criteria			
Sampling Date	24/09/2021				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID	JKW-WAC-001							
Depth (m)								
Solid Waste Analysis								
TOC (%)**	4.5				3%	5%	6%	
Loss on Ignition (%) **	13				--	--	10%	
BTEX (µg/kg) **	< 10				6000	--	--	
Sum of PCBs (mg/kg) **	< 0.30				1	--	--	
Mineral Oil (mg/kg) #	110				500	--	--	
Total PAH (WAC-17) (mg/kg)	230				100	--	--	
pH (units)**	6.0				--	>6	--	
Acid Neutralisation Capacity (mol / kg)	-2.9				--	To be evaluated	To be evaluated	
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test			
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)			
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25	
Barium *	0.10	0.050		0.54	20	100	300	
Cadmium *	0.0020	0.0005		0.0064	0.04	1	5	
Chromium *	0.0083	0.0049		0.052	0.5	10	70	
Copper *	0.16	0.084		0.90	2	50	100	
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2	
Molybdenum *	< 0.0030	0.0032		0.029	0.5	10	30	
Nickel *	0.019	0.014		0.14	0.4	10	40	
Lead *	0.067	0.028		0.32	0.5	10	50	
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5	
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7	
Zinc *	0.15	0.0679		0.75	4	50	200	
Chloride *	43	9.3		120	800	15000	25000	
Fluoride	0.30	0.35		3.4	10	150	500	
Sulphate *	61	17		210	1000	20000	50000	
TDS*	240	80		950	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-	
DOC	110	49		550	500	800	1000	
Leach Test Information								
Stone Content (%)	< 0.1							
Sample Mass (kg)	1.5							
Dry Matter (%)	96							
Moisture (%)	4.2							
Stage 1								
Volume Eluate L2 (litres)	0.34							
Filtered Eluate VE1 (litres)	0.16							
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					* = UKAS accredited (liquid eluate analysis only)			
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited			

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.



Analytical Report Number : 21-12428
Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2024573	JKW-WAC-001	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 21-12428

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Preparation WAC leachate		In-house method	L043-PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-PL	W	ISO 17025
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031-PL	W	NONE
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil in Soil C10 - C40	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L076-PL	D	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L023-PL	D	MCERTS
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
PCB's by GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS

Analytical Report Number : 21-12428

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-12415

Project / Site name:	Belle Vue	Samples received on:	24/09/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	24/09/2021
Your order number:	12-123-GC-W	Analysis completed by:	01/10/2021
Report Issue Number:	1	Report issued on:	01/10/2021
Samples Analysed:	3 soil samples		

Signed:

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-12415

Project / Site name: Belle Vue

Your Order No: 12-123-GC-W

Lab Sample Number				2024537	2024538	2024539
Sample Reference				TP407	TP407	TP408
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50-1.50	4.50	2.50-3.00
Date Sampled				24/09/2021	24/09/2021	24/09/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.1	8.6	6.9
Total mass of sample received	kg	0.001	NONE	0.50	0.50	1.2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	8.1	8.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	1.3
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1900	3000	4200
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.35	0.64	0.53
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	710	1300	1100
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	353	643	528
Sulphide	mg/kg	1	MCERTS	12	9.7	< 1.0
Total Sulphur	mg/kg	50	MCERTS	980	4000	2300
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.4	2.4	1.9

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	3.3	-	3.8
Acenaphthylene	mg/kg	0.05	MCERTS	0.85	-	0.72
Acenaphthene	mg/kg	0.05	MCERTS	4.3	-	15
Fluorene	mg/kg	0.05	MCERTS	3.5	-	9.2
Phenanthrene	mg/kg	0.05	MCERTS	32	-	84
Anthracene	mg/kg	0.05	MCERTS	7.3	-	20
Fluoranthene	mg/kg	0.05	MCERTS	33	-	88
Pyrene	mg/kg	0.05	MCERTS	35	-	77
Benzo(a)anthracene	mg/kg	0.05	MCERTS	18	-	49
Chrysene	mg/kg	0.05	MCERTS	13	-	33
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	14	-	53
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	7.7	-	59
Benzo(a)pyrene	mg/kg	0.05	MCERTS	15	-	34
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	6.6	-	16
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.2	-	3.4
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	7.7	-	19

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	204	-	564
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	34	28	30
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	19	29
Copper (aqua regia extractable)	mg/kg	1	MCERTS	400	140	410
Lead (aqua regia extractable)	mg/kg	1	MCERTS	620	400	260
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.6	1.7	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	49	27	28
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	380	170	190

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Your Order No: 12-123-GC-W

Lab Sample Number				2024537	2024538	2024539
Sample Reference				TP407	TP407	TP408
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50-1.50	4.50	2.50-3.00
Date Sampled				24/09/2021	24/09/2021	24/09/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	3.6	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	53	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	84	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	430	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	570	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	5.4	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	58	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	190	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	350	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	600	-

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	-	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	8.4	-	11
TPH (C12 - C16)	mg/kg	4	MCERTS	18	-	59
TPH (C16 - C21)	mg/kg	1	MCERTS	76	-	260
TPH (C21 - C35)	mg/kg	1	MCERTS	140	-	400
TPH (C35 - C40)	mg/kg	10	MCERTS	18	-	83
TPH Total C5 - C40	mg/kg	10	MCERTS	260	-	810

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-
Chloroethane	µg/kg	1	NONE	-	< 1.0	-
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-

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Project / Site name: Belle Vue

Your Order No: 12-123-GC-W

Lab Sample Number				2024537	2024538	2024539
Sample Reference				TP407	TP407	TP408
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50-1.50	4.50	2.50-3.00
Date Sampled				24/09/2021	24/09/2021	24/09/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-
Benzene	µg/kg	1	MCERTS	-	< 1.0	-
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-
Styrene	µg/kg	1	MCERTS	-	< 1.0	-
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 0.05	-

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Project / Site name: Belle Vue

Your Order No: 12-123-GC-W

Lab Sample Number				2024537	2024538	2024539
Sample Reference				TP407	TP407	TP408
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.50-1.50	4.50	2.50-3.00
Date Sampled				24/09/2021	24/09/2021	24/09/2021
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	-	6.2	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	3.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	0.79	-
Acenaphthene	mg/kg	0.05	MCERTS	-	15	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	6.1	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	-	12	-
Azobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	-	38	-
Anthracene	mg/kg	0.05	MCERTS	-	15	-
Carbazole	mg/kg	0.3	MCERTS	-	3.7	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-
Anthraquinone	mg/kg	0.3	MCERTS	-	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	-	37	-
Pyrene	mg/kg	0.05	MCERTS	-	37	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	22	-
Chrysene	mg/kg	0.05	MCERTS	-	19	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	19	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	13	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	19	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	8.2	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	2.7	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	9.4	-

U/S = Unsuitable Sample I/S = Insufficient Sample



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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2024537	TP407	None Supplied	0.50-1.50	Brown sandy clay with gravel.
2024538	TP407	None Supplied	4.5	Brown sandy clay with gravel.
2024539	TP408	None Supplied	2.50-3.00	Brown loam with gravel.

Analytical Report Number : 21-12415

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

Analytical Report Number : 21-12415

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Sample Deviation Report



Analytical Report Number : 21-12415

Project / Site name: Belle Vue

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP408	None Supplied	S	2024539	b	Monohydric phenols in soil	L080-PL	b
TP408	None Supplied	S	2024539	b	Speciated EPA-16 PAHs in soil	L064-PL	b
TP408	None Supplied	S	2024539	b	TPH in (Soil)	L076-PL	b



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Analytical Report Number : 21-97793

Project / Site name:	Belle Vue	Samples received on:	06/09/2021
Your job number:	12-123	Samples instructed on/ Analysis started on:	06/09/2021
Your order number:	12-123-GC-S	Analysis completed by:	14/09/2021
Report Issue Number:	1	Report issued on:	14/09/2021
Samples Analysed:	1 leachate sample - 4 soil samples		

Signed

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-97793

Project / Site name: Belle Vue

Your Order No: 12-123-GC-S

Lab Sample Number				2001641	2001642	2001643	2001644
Sample Reference				TP401	TP402	TP402	TP403
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.20	1.50	0.40
Date Sampled				07/09/2021	07/09/2021	07/09/2021	07/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	15	13	10
Total mass of sample received	kg	0.001	NONE	0.30	0.30	0.30	0.30

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	8.0	8.5	8.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1300	1200	250	920
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.029	0.25	0.030	0.23
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	58	500	59	450
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	28.9	251	29.5	227
Sulphide	mg/kg	1	MCERTS	5.1	16	< 1.0	2.6
Total Sulphur	mg/kg	50	MCERTS	930	2100	120	500

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.20	0.28	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.22	0.25	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.9	2.6	< 0.05	0.37
Anthracene	mg/kg	0.05	MCERTS	0.50	0.75	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	4.2	4.5	< 0.05	0.80
Pyrene	mg/kg	0.05	MCERTS	4.3	4.5	< 0.05	0.82
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.5	3.2	< 0.05	0.47
Chrysene	mg/kg	0.05	MCERTS	2.0	2.5	< 0.05	0.37
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.1	2.8	< 0.05	0.38
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.3	1.9	< 0.05	0.24
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.4	3.2	< 0.05	0.35
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.1	1.4	< 0.05	0.22
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.36	0.42	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.3	1.7	< 0.05	0.24

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	24.5	29.9	< 0.80	4.26
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	20	10	14
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	25	30	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	58	61	27	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	340	190	13	71
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.0	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	31	35	26
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	130	98	63	78

Analytical Report Number: 21-97793

Project / Site name: Belle Vue

Your Order No: 12-123-GC-S

Lab Sample Number				2001641	2001642	2001643	2001644
Sample Reference				TP401	TP402	TP402	TP403
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.20	1.50	0.40
Date Sampled				07/09/2021	07/09/2021	07/09/2021	07/09/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	10	15	< 1.0	5.2
TPH (C21 - C35)	mg/kg	1	MCERTS	31	38	< 1.0	39
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	< 10	< 10	18
TPH Total C5 - C40	mg/kg	10	MCERTS	41	53	< 10	62

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-97793

Project / Site name: Belle Vue

Your Order No: 12-123-GC-S

Lab Sample Number				2001645
Sample Reference				TP402
Sample Number				None Supplied
Depth (m)				0.20
Date Sampled				07/09/2021
Time Taken				None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

pH	pH Units	N/A	ISO 17025	7.8
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	1.4

Total Phenols

Total Phenols (monohydric)	µg/l	1	ISO 17025	< 1.0
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1	ISO 17025	< 1.0
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	< 0.4
Copper (dissolved)	µg/l	0.7	ISO 17025	22
Lead (dissolved)	µg/l	1	ISO 17025	2.7
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	4.8
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	12



Analytical Report Number: 21-97793

Project / Site name: Belle Vue

Your Order No: 12-123-GC-S

Lab Sample Number				2001645
Sample Reference				TP402
Sample Number				None Supplied
Depth (m)				0.20
Date Sampled				07/09/2021
Time Taken				None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10
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TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-97793

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2001641	TP401	None Supplied	0.3	Brown loam and clay with gravel and vegetation.
2001642	TP402	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2001643	TP402	None Supplied	1.5	Brown clay with gravel.
2001644	TP403	None Supplied	0.4	Brown clay and loam with gravel.

Analytical Report Number : 21-97793

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in leachate - LOW LEVEL 1 ug/l	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L102B-PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
pH at 20oC in leachate	Determination of pH in leachate by electrometric measurement.	In house method.	L005-PL	W	ISO 17025
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

Analytical Report Number : 21-97793

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
TPH1 (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
BTEX and MTBE in leachates (Monoaromatics)	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Total cyanide in leachate - 1µg/l	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



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Analytical Report Number : 21-99373

Project / Site name:	Belle Vue	Samples received on:	14/09/2021
Your job number:	12 123	Samples instructed on/ Analysis started on:	14/09/2021
Your order number:	12 123 EC U	Analysis completed by:	21/09/2021
Report Issue Number:	1	Report issued on:	21/09/2021
Samples Analysed:	2 soil samples		

Signed:

Izabela Wójcik
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 21-99373

Project / Site name: Belle Vue

Your Order No: 12 123 EC U

Lab Sample Number				2010775	2010776
Sample Reference				TP406	TP404
Sample Number				None Supplied	None Supplied
Depth (m)				1.00	0.30
Date Sampled				13/09/2021	13/09/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.5	19
Total mass of sample received	kg	0.001	NONE	0.50	1.0

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	Amosite
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	< 0.001

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	10.7	8.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1600	2900
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.27	0.82
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	550	1600
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	273	824
Sulphide	mg/kg	1	MCERTS	22	11
Total Sulphur	mg/kg	50	MCERTS	530	1300

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.36	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.30	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	4.1	1.9
Anthracene	mg/kg	0.05	MCERTS	0.91	0.54
Fluoranthene	mg/kg	0.05	MCERTS	6.8	4.2
Pyrene	mg/kg	0.05	MCERTS	6.0	3.9
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3.5	2.3
Chrysene	mg/kg	0.05	MCERTS	2.2	1.8
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	3.1	2.2
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.3	1.0
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.8	2.0
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.3	0.96
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.41	0.29
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.4	1.1

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	34.5	22.1
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Analytical Report Number: 21-99373

Project / Site name: Belle Vue

Your Order No: 12 123 EC U

Lab Sample Number				2010775	2010776
Sample Reference				TP406	TP404
Sample Number				None Supplied	None Supplied
Depth (m)				1.00	0.30
Date Sampled				13/09/2021	13/09/2021
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.5	12
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	51
Lead (aqua regia extractable)	mg/kg	1	MCERTS	38	88
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	49	160

Petroleum Hydrocarbons

TPH (C5 - C6)	mg/kg	1	NONE	< 1.0	< 1.0
TPH (C6 - C8)	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	4.7
TPH (C16 - C21)	mg/kg	1	MCERTS	22	15
TPH (C21 - C35)	mg/kg	1	MCERTS	29	43
TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	13
TPH Total C5 - C40	mg/kg	10	MCERTS	51	75

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-99373
Project / Site name: Belle Vue
Your Order No: 12 123 EC U

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
2010776	TP404	0.30	134	Loose Fibres	Amosite	< 0.001	< 0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number : 21-99373

Project / Site name: Belle Vue

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2010775	TP406	None Supplied	1	Brown clay and sand with gravel.
2010776	TP404	None Supplied	0.3	Brown clay and sand with gravel.

Analytical Report Number : 21-99373

Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS



Analytical Report Number : 21-99373
Project / Site name: Belle Vue

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

APPENDIX V

PHOTOGRAPHS

PLATE 1

SUPPLEMENTARY SITE INVESTIGATION TP201



PLATE 2

SUPPLEMENTARY SITE INVESTIGATION 300 SERIES



PLATE 3

SUPPLEMENTARY SITE INVESTIGATION 300 SERIES



PLATE 4

SUPPLEMENTARY SITE INVESTIGATION TP404



PLATE 5 MADE GROUND TURNED IN THE CENTRE OF SITE MAY 2021



PLATE 6 SITE CLEARANCE- MADE GROUND TURNED IN THE WEST



PLATE 7 SITE CLEARANCE- DEMOLITION OF EXSISTING BUILDINGS



PLATE 8 SITE CLEARANCE- DEMOLITION OF STRUCTURES



PLATE 9 SITE CLEARANCE – DEMOLITION OF STRUCTURES



PLATE 10 SEGREGATED JAPANESE KNOTWEED IN THE SOUTH



PLATE 11 JAPANESE KNOTWEED IN THE EAST OF THE SITE



PLATE 12 JAPANESE KNOTWEED BURIAL CELL MARKED OUT IN THE EAST OF THE SITE



PLATE 13 JAPANESE KNOTWEED CELL IN THE EAST OF THE SITE



PLATE 14 ASBESTOS REMOVAL IN BULIDINGS



PLATE 15 ASBESTOS REMOVAL FROM THE SCOREBOARD



PLATE 16 ASBESTOS HOTSPOT TP303



PLATE 17 ASBESTOS HOTSPOT- TP408 WITH VISIBLE ACM



PLATE 18 TP106 HOTSPOT REMOVAL



PLATE 19

TP106 EXTENSTION



PLATE 20

TP215 HOTSPOT REMOVAL



PLATE 21

TP215 HOTSPOT EXTENSTION



PLATE 22

SCREENING OF MATERIAL



PLATE 23 CHEMICAL VALIDATION OF ELECTRICAL SUBSTATION



PLATE 24 INVESTIGATION OF POTENTIAL COMPRESSIONAL PEAT



PLATE 25

PROCESSING OF SUBSTRUCTURES AND MADE GROUND



PLATE 26

PROCESSING OF SUBSTRUCTURES AND MADE GROUND



PLATE 27

CUT AND FILL OF MADE GROUND TO DEVELOPMENT LEVELS



PLATE 28

CUT AND FILL OF MADE GROUND TO DEVELOPMENT LEVELS



PLATE 29

CUT AND FILL OF MADE GROUND TO DEVELOPMENT LEVELS



PLATE 30

SITE CLEARANCE- MADE GROUND TURNED IN THE WEST



PLATE 31 IMPORTATION OF GRANULAR BULK FILL



PLATE 32 SITE CLEARANCE- MADE GROUND TURNED IN THE WEST



PLATE 33

SITE CLEARANCE- MADE GROUND TURNED IN THE WEST



APPENDIX VI

GEOTECHNICAL TESTING

RESULTS



LABORATORY REPORT



4043

Contract Number: PSL21/7196

Report Date: 01 October 2021

Client's Reference: 12-123

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Olivia Jackson/Georgia Clavert

Contract Title: Belle Vue

Date Received: 7/9/2021

Date Commenced: 7/9/2021

Date Completed: 1/10/2021

Notes: Opinions and Interpretations are outside the UKAS Accreditation

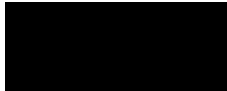
A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)


L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)

T Watkins
(Senior Technician)

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Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043

PSL
Professional Soils Laboratory

Belle Vue

Contract No:

PSL21/7196

Client Ref:

12-123

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

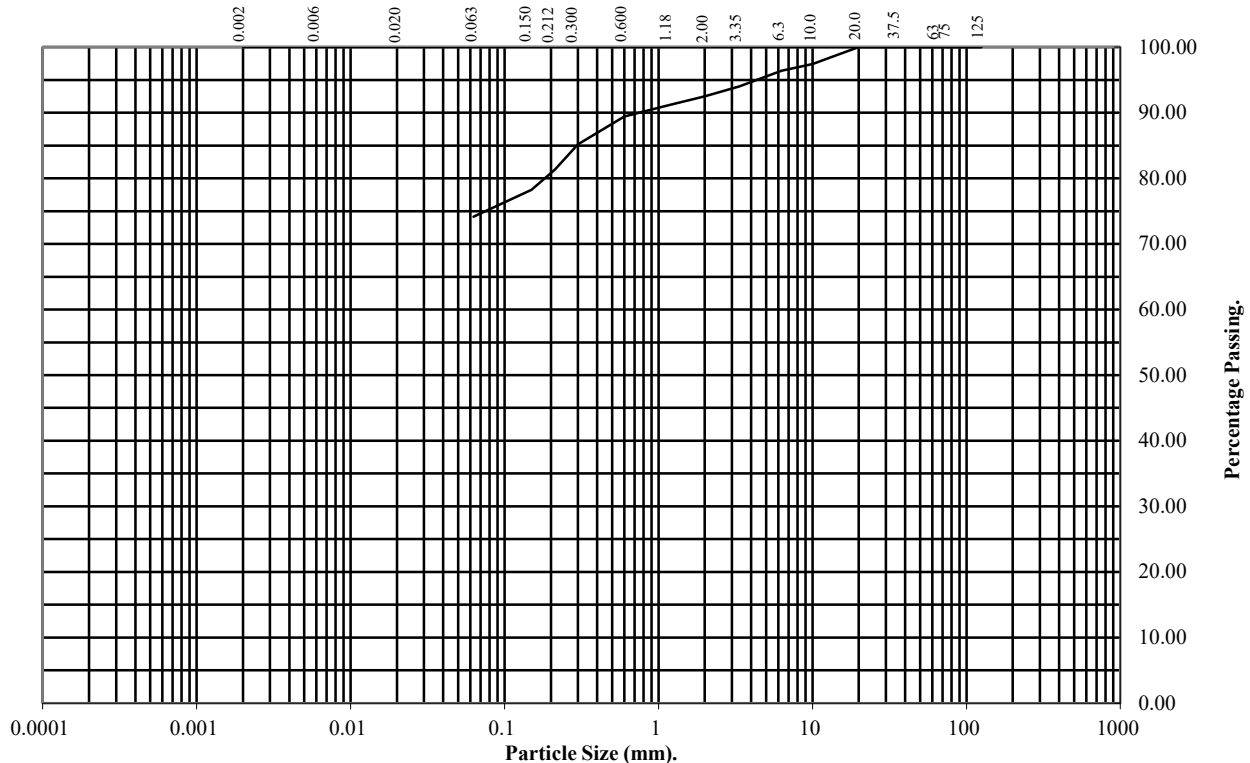
Hole Number: TP402

Top Depth (m): 0.40

Sample Number:

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	97
6.3	96
3.35	94
2	92
1.18	91
0.6	89
0.3	85
0.212	81
0.15	78
0.063	74

Soil Fraction	Total Percentage
Cobbles	0
Gravel	8
Sand	18
Silt/Clay	74

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL21/7196
Client Ref:
12-123

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

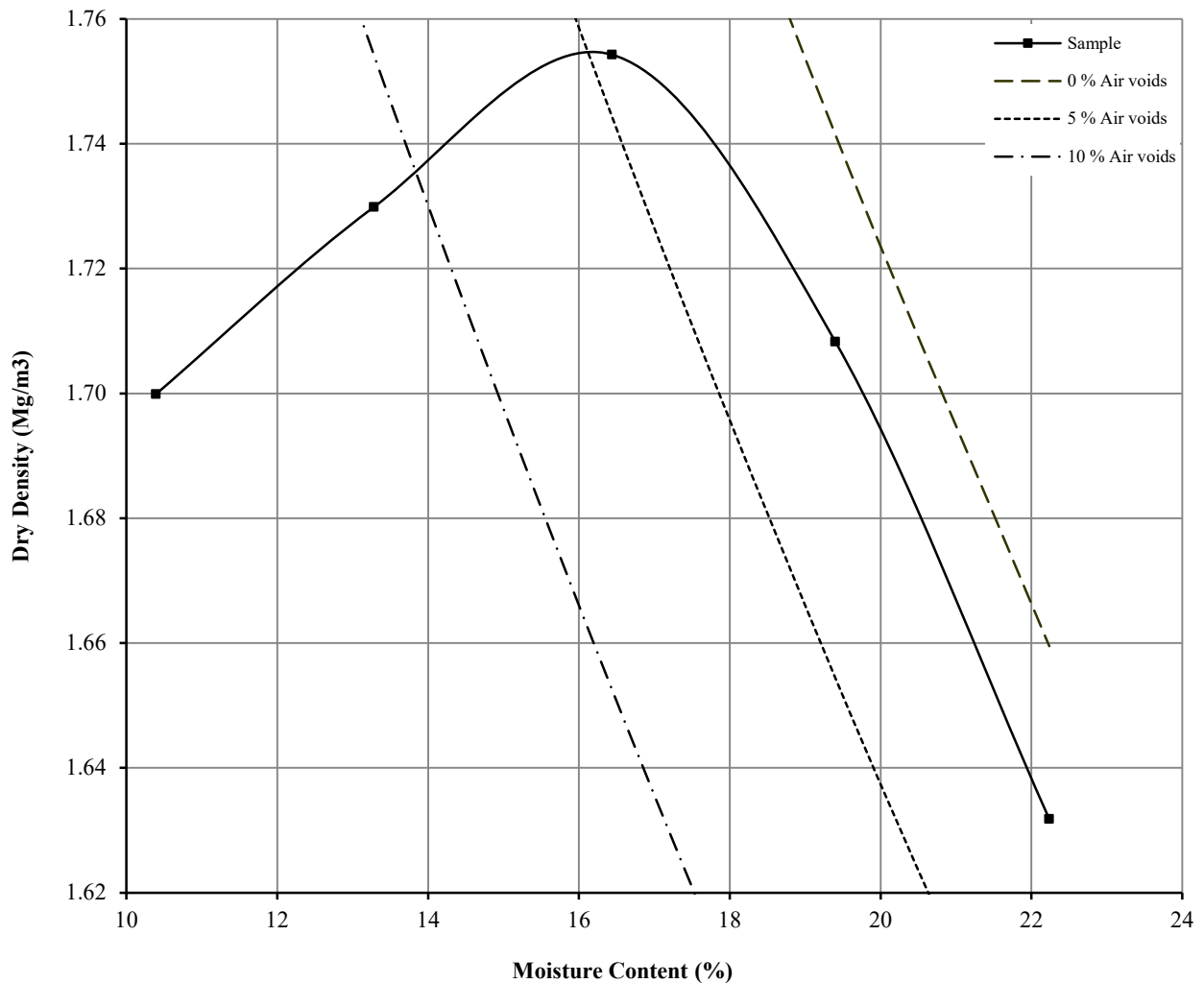
Hole Number: TP402

Top Depth (m) : 0.40

Sample Number:

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	22	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.63	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.75		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	16			
Remarks See summary of soil descriptions				



PSL
Professional Soils Laboratory

Belle Vue

Contract
PSL21/7196
Client Ref
12-123



LABORATORY REPORT



4043

Contract Number: PSL21/4007

Report Date: 30 June 2021

Client's Reference: 12-123

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Olivia Jackson

Contract Title: Belle Vue

Date Received: 17/5/2021

Date Commenced: 17/5/2021

Date Completed: 30/6/2021

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)

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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

PSL
Professional Soils Laboratory

Belle Vue

Contract No:**PSL21/4007****Client Ref:**

12-123

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

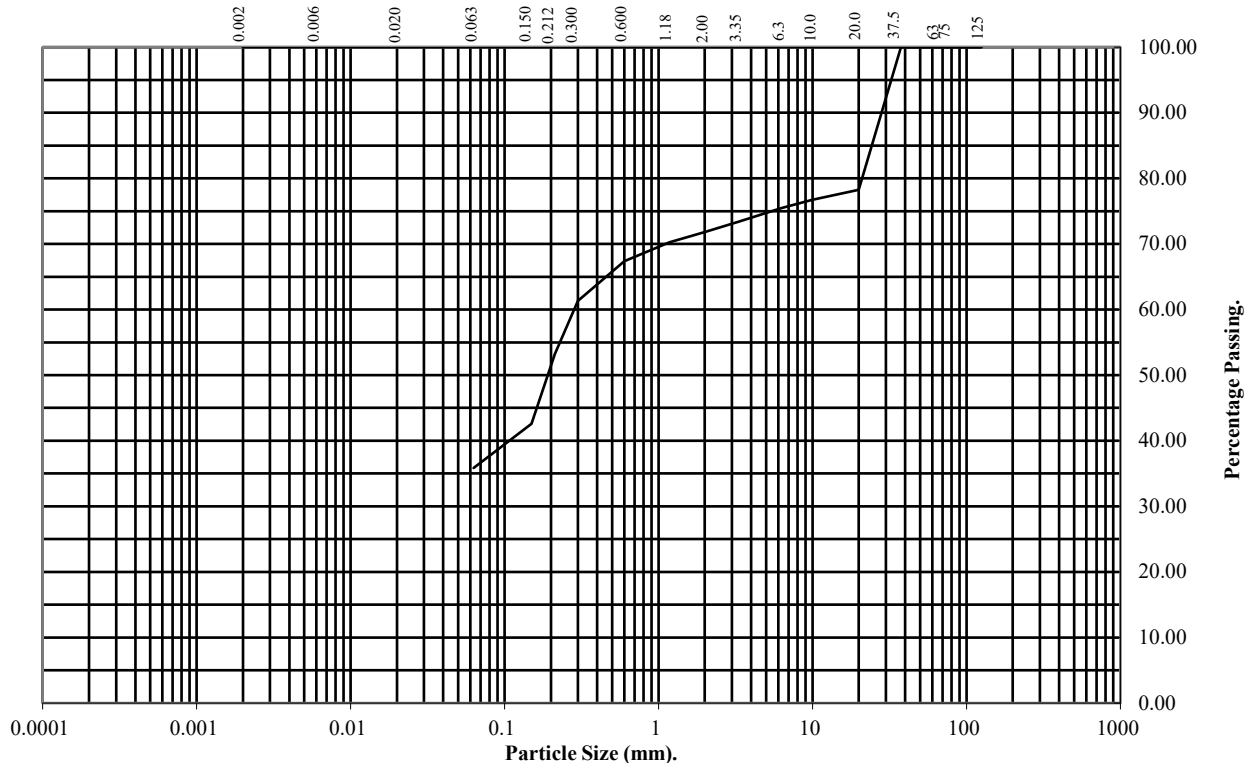
Hole Number: SW-MG-101

Top Depth (m):

Sample Number: MG

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	78
10	77
6.3	75
3.35	73
2	72
1.18	70
0.6	67
0.3	61
0.212	53
0.15	43
0.063	36

Soil Fraction	Total Percentage
Cobbles	0
Gravel	28
Sand	36
Silt/Clay	36

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL21/4007
Client Ref:
12-123

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

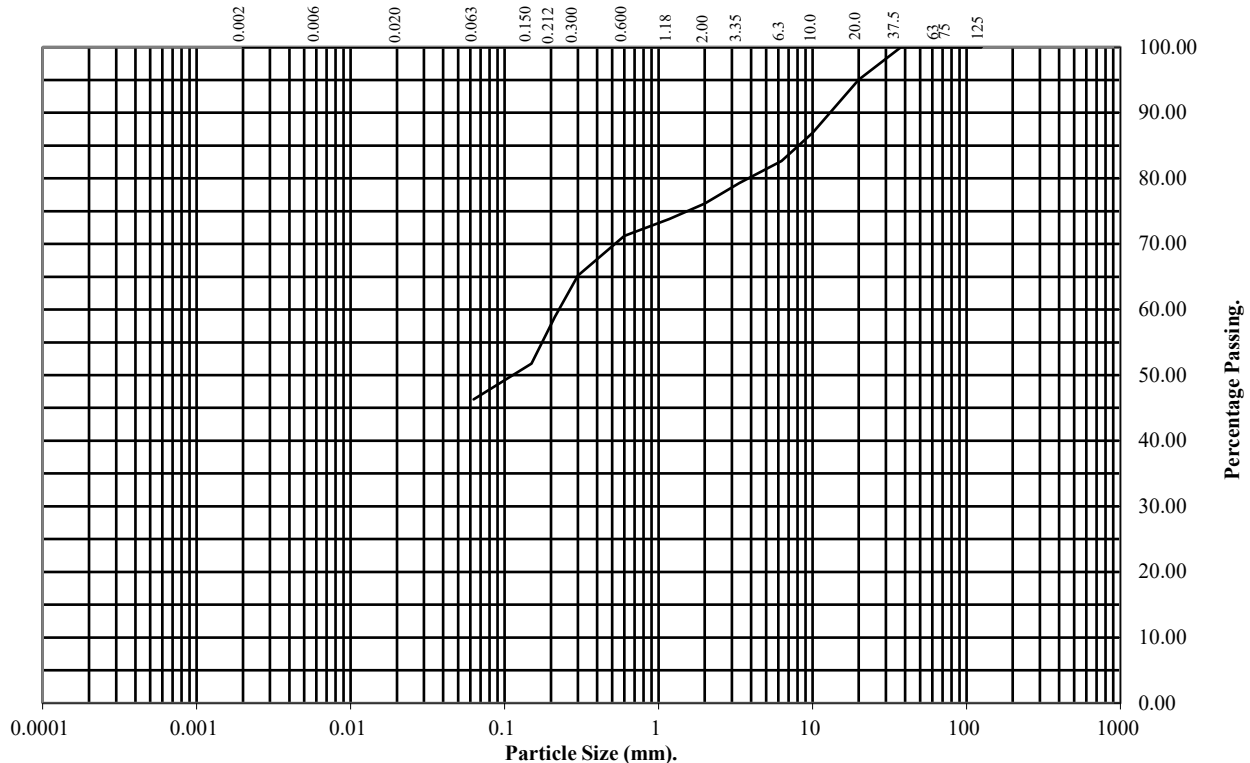
Hole Number: SW-MG-102

Top Depth (m):

Sample Number: MG

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	95
10	87
6.3	83
3.35	79
2	76
1.18	74
0.6	71
0.3	65
0.212	59
0.15	52
0.063	46

Soil Fraction	Total Percentage
Cobbles	0
Gravel	24
Sand	30
Silt/Clay	46

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL21/4007
Client Ref:
12-123

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

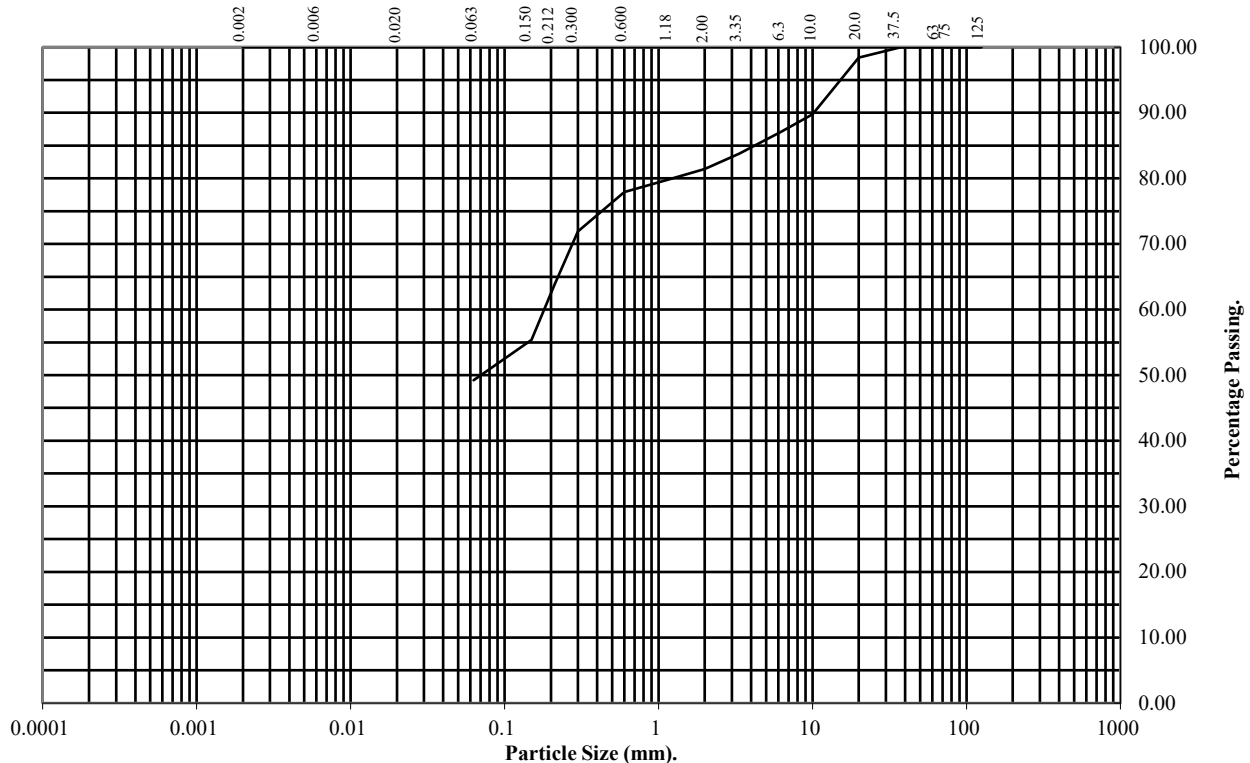
Hole Number: SW-MG-103

Top Depth (m):

Sample Number: MG

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	98
10	90
6.3	87
3.35	84
2	81
1.18	80
0.6	78
0.3	72
0.212	64
0.15	55
0.063	49

Soil Fraction	Total Percentage
Cobbles	0
Gravel	19
Sand	32
Silt/Clay	49

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL21/4007
Client Ref:
12-123

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.6 : 1990

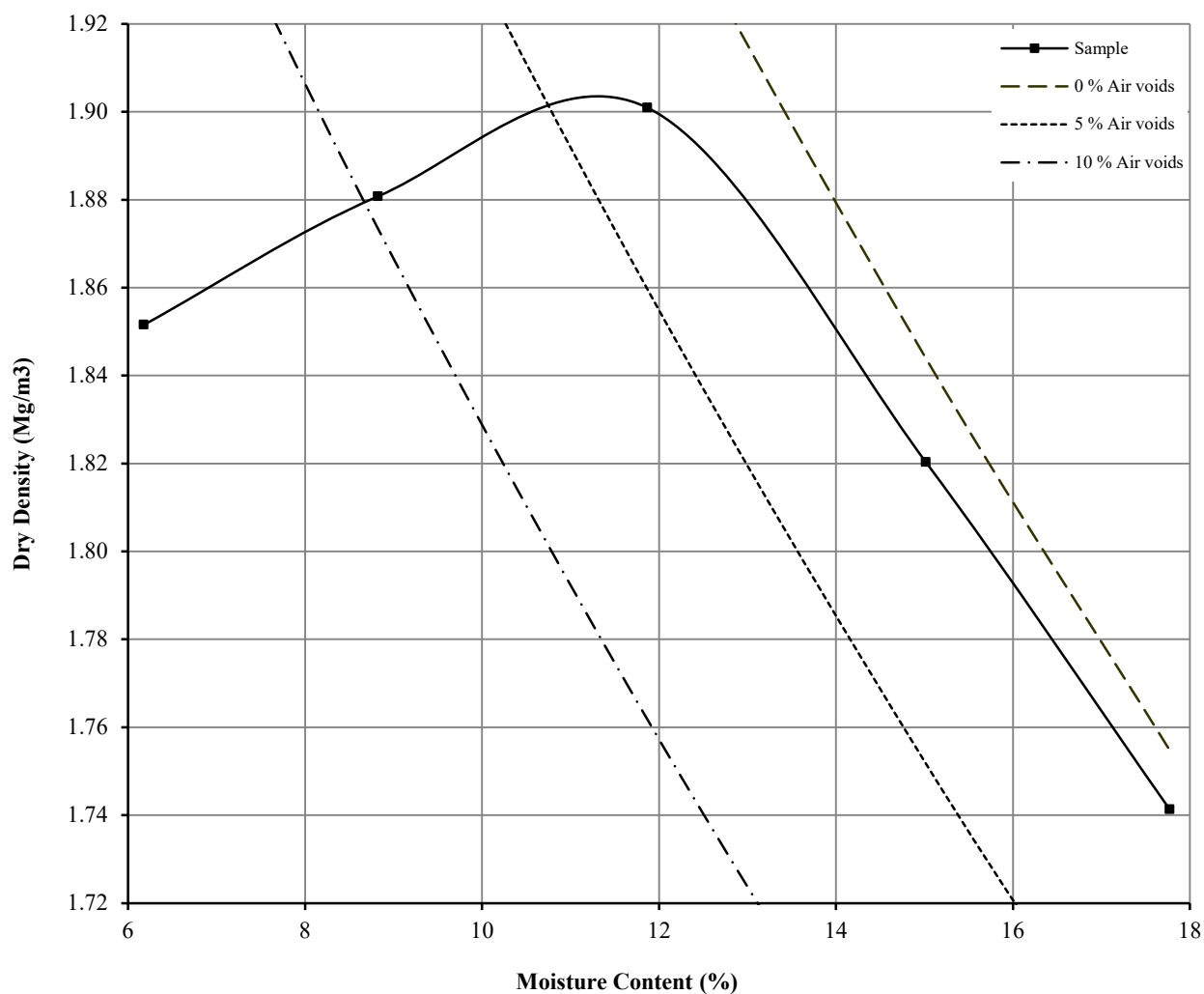
Hole Number: SW-MG-101

Top Depth (m) :

Sample Number: MG

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	18	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.55	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m ³):	1.90		Material Retained on 20.0 mm Test Sieve (%):	22
Optimum Moisture Content (%):	12			
Remarks See summary of soil descriptions				



PSL
Professional Soils Laboratory

Belle Vue

Contract
PSL21/4007
Client Ref
12-123

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.5 : 1990

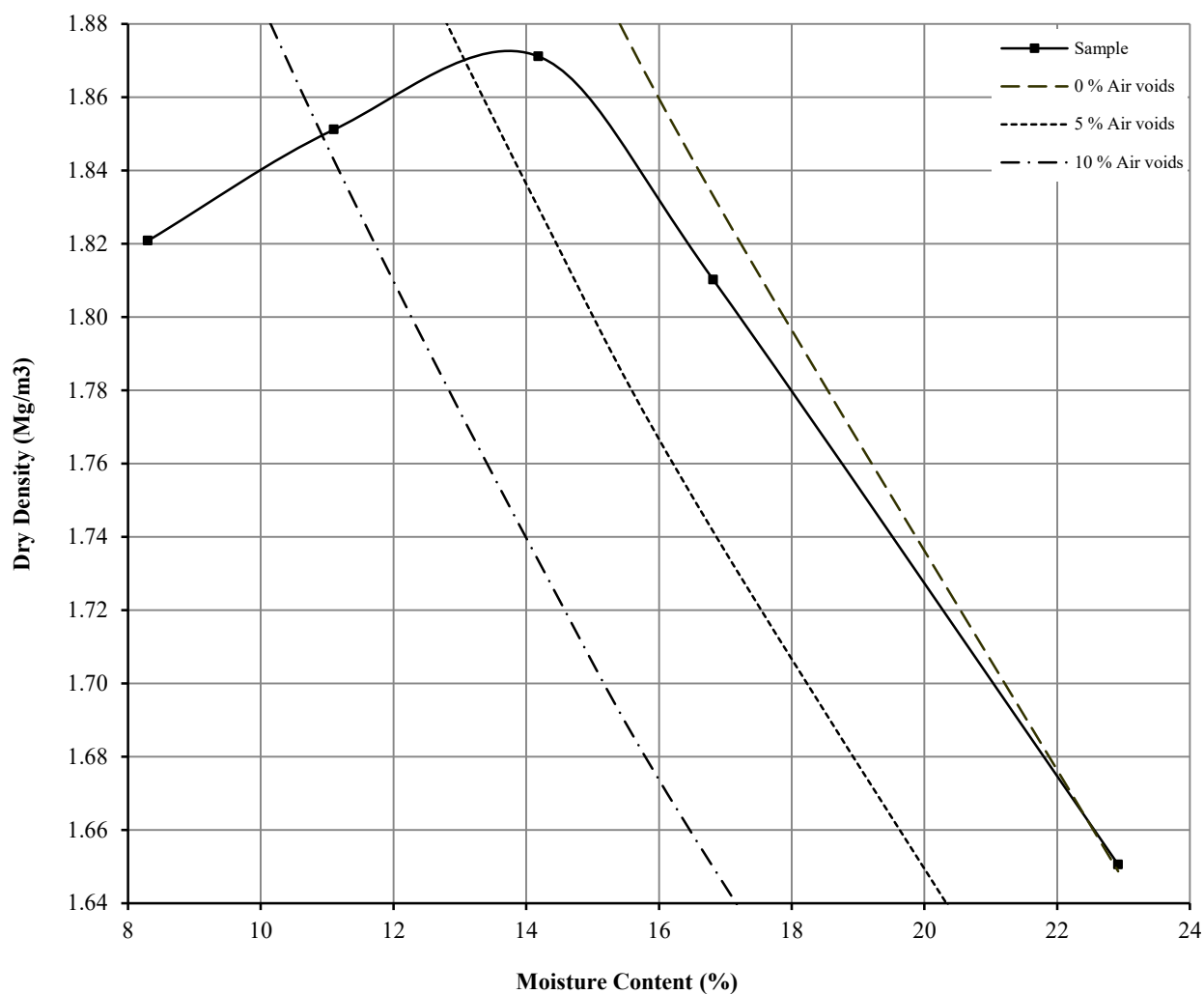
Hole Number: SW-MG-102

Top Depth (m) :

Sample Number: MG

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	23	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m ³):	2.65	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m ³):	1.87		Material Retained on 20.0 mm Test Sieve (%):	5
Optimum Moisture Content (%):	14			
Remarks See summary of soil descriptions				



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Belle Vue

Contract
PSL21/4007
Client Ref
12-123

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.5 : 1990

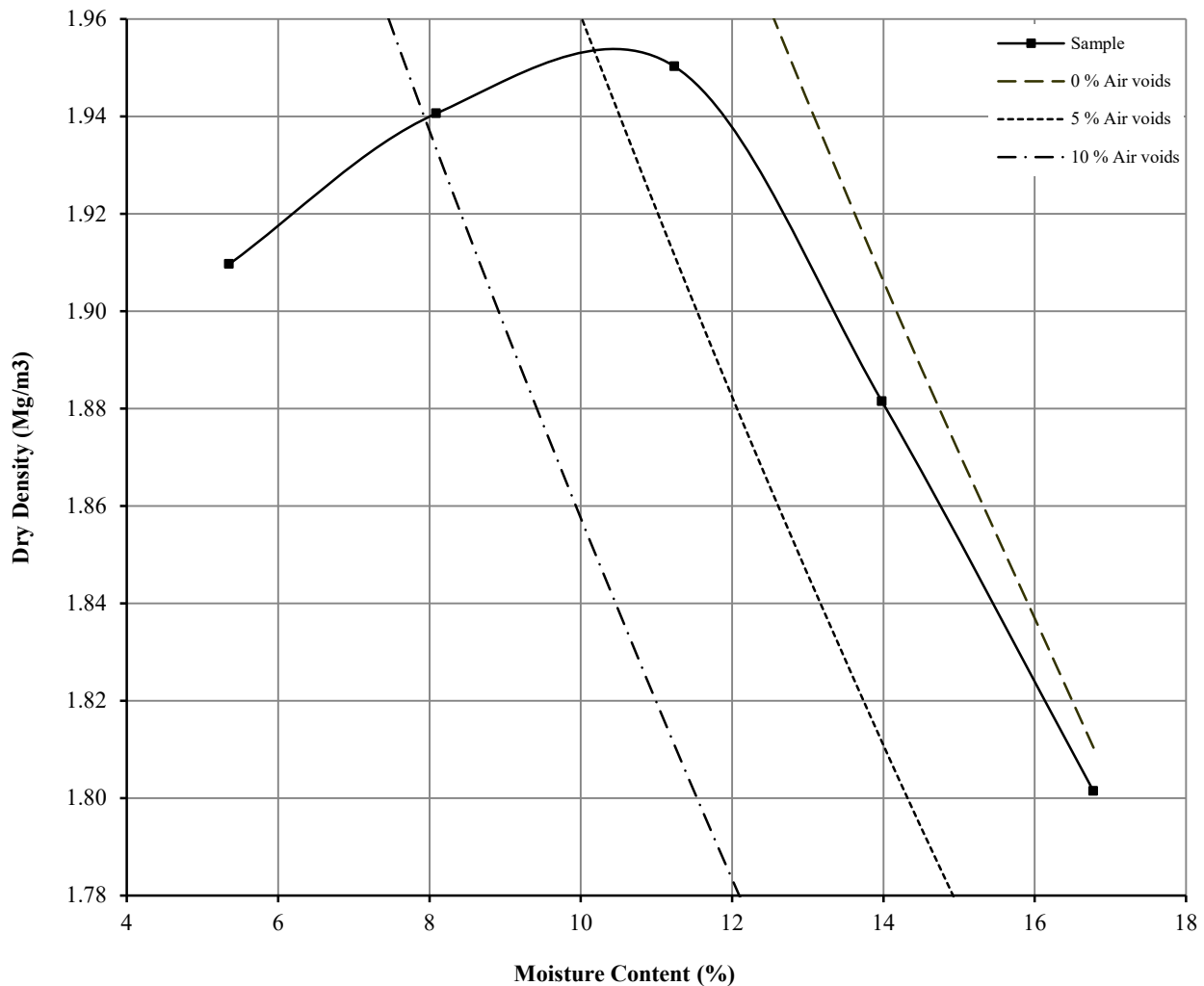
Hole Number: SW-MG-103

Top Depth (m) :

Sample Number: MG

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	17	Method of Compaction:	4.5kg	Separate Samples
Particle Density (Mg/m3):	2.60	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.95		Material Retained on 20.0 mm Test Sieve (%):	2
Optimum Moisture Content (%):	11			
Remarks See summary of soil descriptions				



PSL
Professional Soils Laboratory

Belle Vue

Contract
PSL21/4007
Client Ref
12-123



LABORATORY REPORT



4043

Contract Number: PSL21/4236

Report Date: 22 June 2021

Client's Reference: 12-123

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Olivia Jackson

Contract Title: Belle Vue

Date Received: 24/5/2021

Date Commenced: 24/5/2021

Date Completed: 21/6/2021

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)

M Fennell
(Senior Technician)

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Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

PSL
Professional Soils Laboratory

Belle Vue

Contract No:

PSL21/4236

Client Ref:

12-123

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

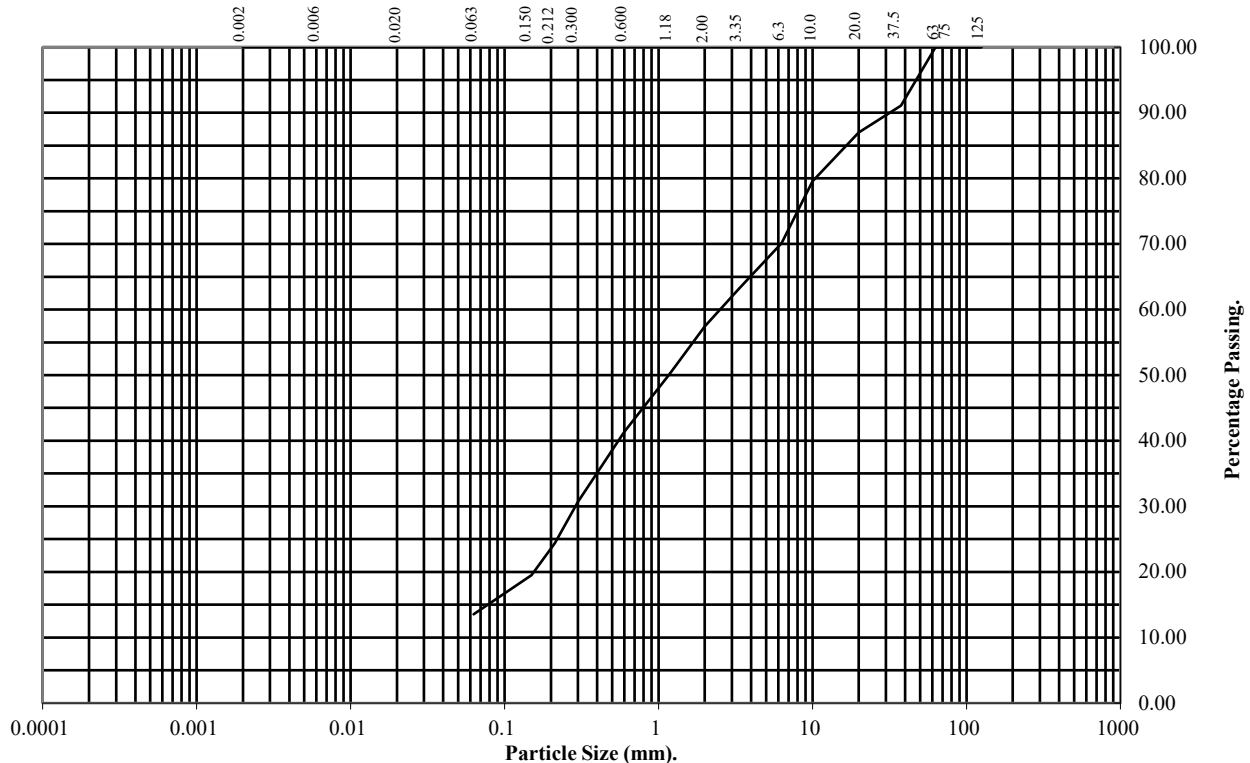
Hole Number: SW-MG-104

Top Depth (m):

Sample Number:

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	91
20	87
10	80
6.3	70
3.35	63
2	57
1.18	50
0.6	41
0.3	31
0.212	24
0.15	20
0.063	14

Soil Fraction	Total Percentage
Cobbles	0
Gravel	43
Sand	43
Silt/Clay	14

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL21/4236
Client Ref:
12-123

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

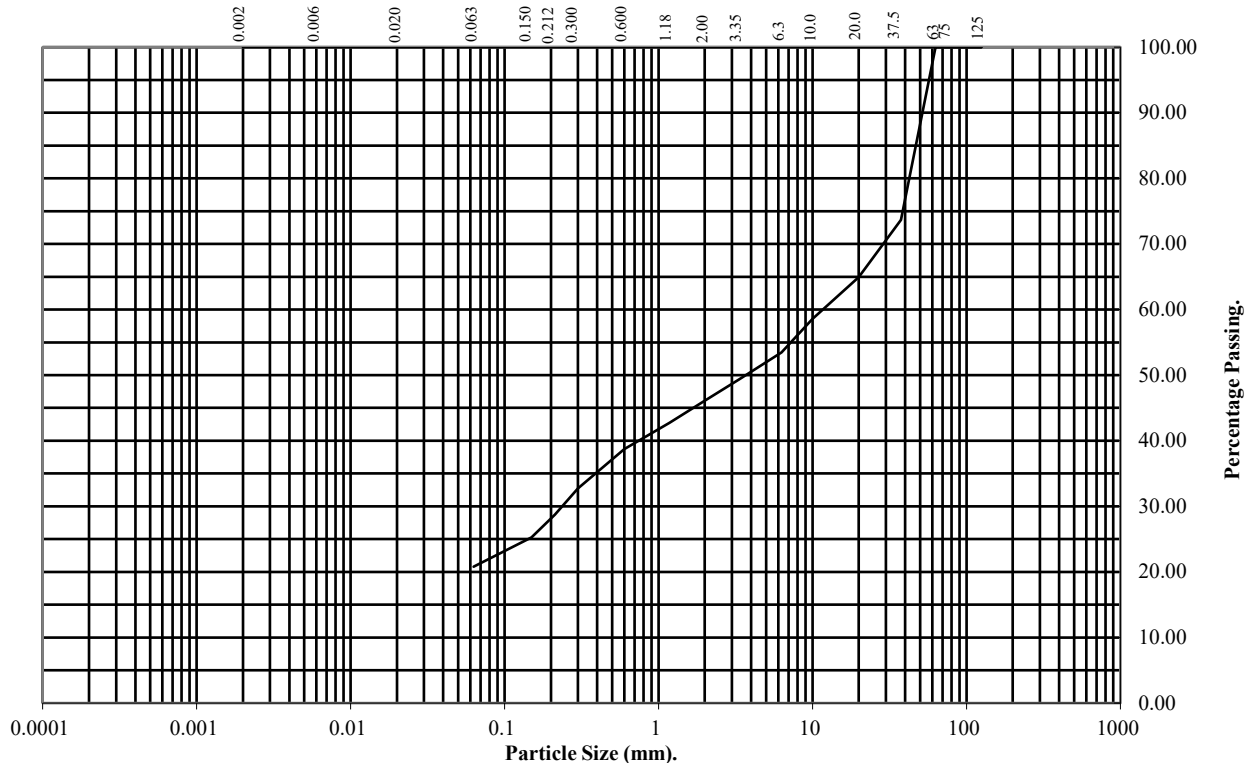
Hole Number: SW-MG-105

Top Depth (m):

Sample Number:

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	74
20	65
10	59
6.3	53
3.35	49
2	46
1.18	43
0.6	39
0.3	33
0.212	29
0.15	25
0.063	21

Soil Fraction	Total Percentage
Cobbles	0
Gravel	54
Sand	25
Silt/Clay	21

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL21/4236
Client Ref:
12-123

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

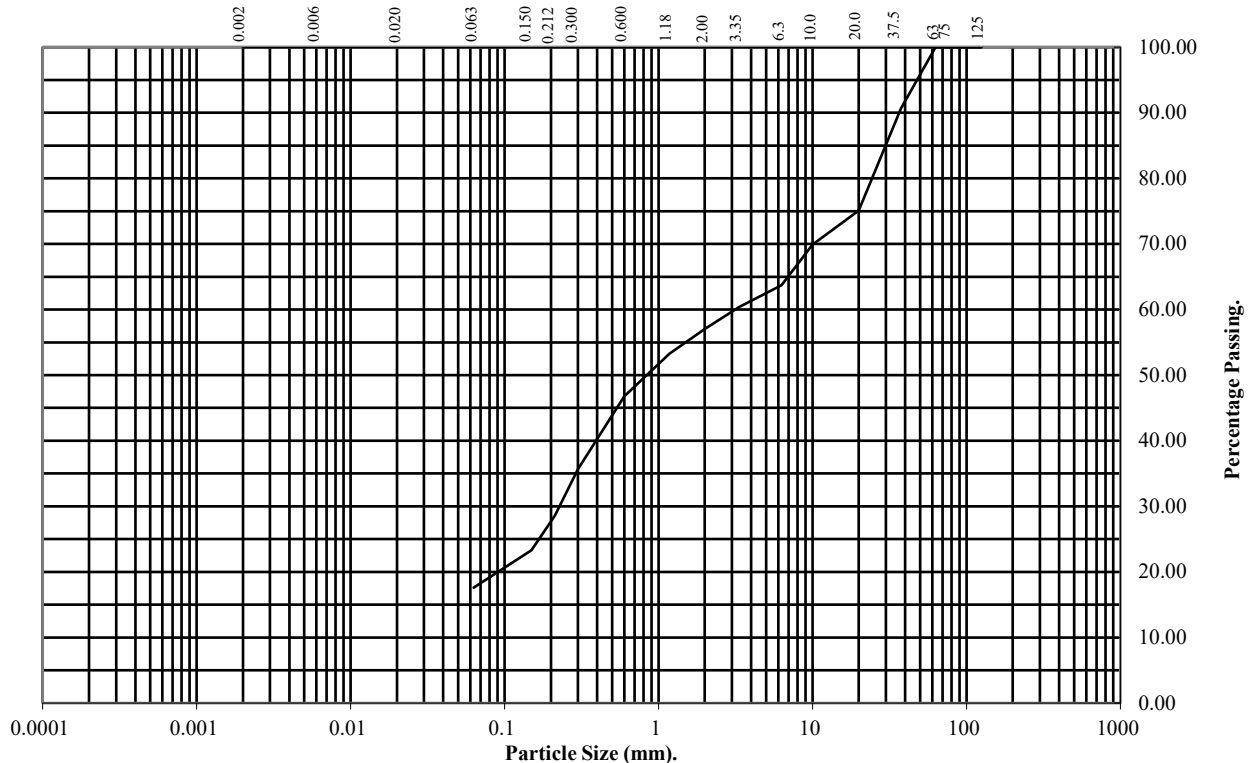
Hole Number: SW-MG-106

Top Depth (m):

Sample Number:

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	91
20	75
10	70
6.3	64
3.35	60
2	57
1.18	53
0.6	47
0.3	36
0.212	29
0.15	23
0.063	18

Soil Fraction	Total Percentage
Cobbles	0
Gravel	43
Sand	39
Silt/Clay	18

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL21/4236
Client Ref:
12-123



LABORATORY REPORT



4043

Contract Number: PSL21/4236

Report Date: 23 June 2021

Client's Reference: 12-123

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Olivia Jackson

Contract Title: Belle Vue

Date Received: 24/5/2021

Date Commenced: 24/5/2021

Date Completed: 21/6/2021

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)

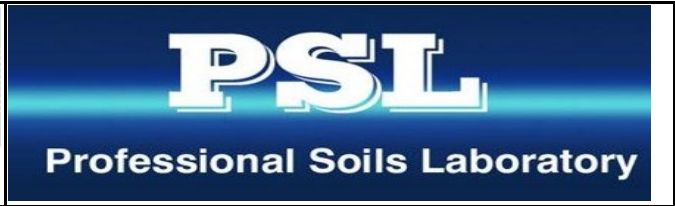
M Fennell
(Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rberriman@prosoils.co.uk
awatkins@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
SW-MG-104		B			MADE GROUND brown clayey silty SAND & GRAVEL. Class 1A.
SW-MG-105		B			MADE GROUND brown very sandy very clayey silty GRAVEL. Class 2C.
SW-MG-106		B			MADE GROUND brown very clayey silty SAND & GRAVEL. Class 2C.

		Belle Vue	Contract No:
			PSL21/4236
			Client Ref:
			12-123

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

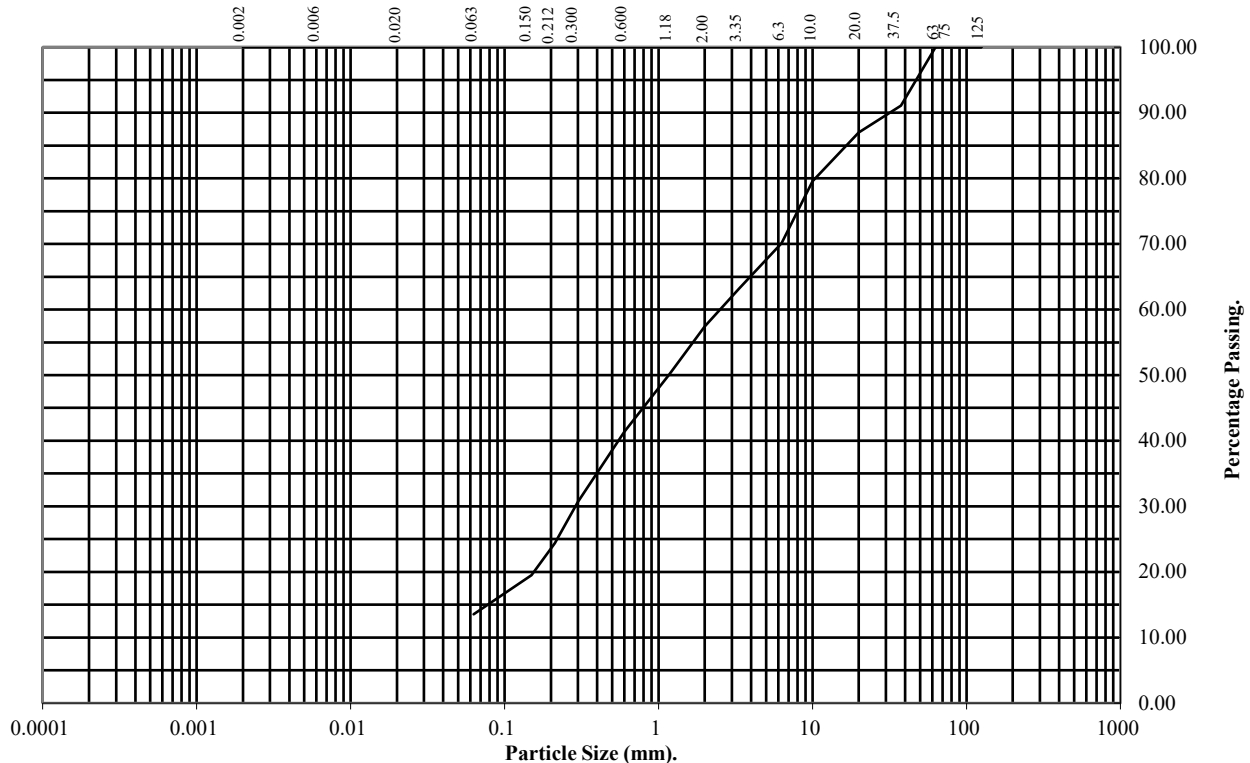
Hole Number: SW-MG-104

Top Depth (m):

Sample Number:

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	91
20	87
10	80
6.3	70
3.35	63
2	57
1.18	50
0.6	41
0.3	31
0.212	24
0.15	20
0.063	14

Soil Fraction	Total Percentage
Cobbles	0
Gravel	43
Sand	43
Silt/Clay	14

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL21/4236
Client Ref:
12-123

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

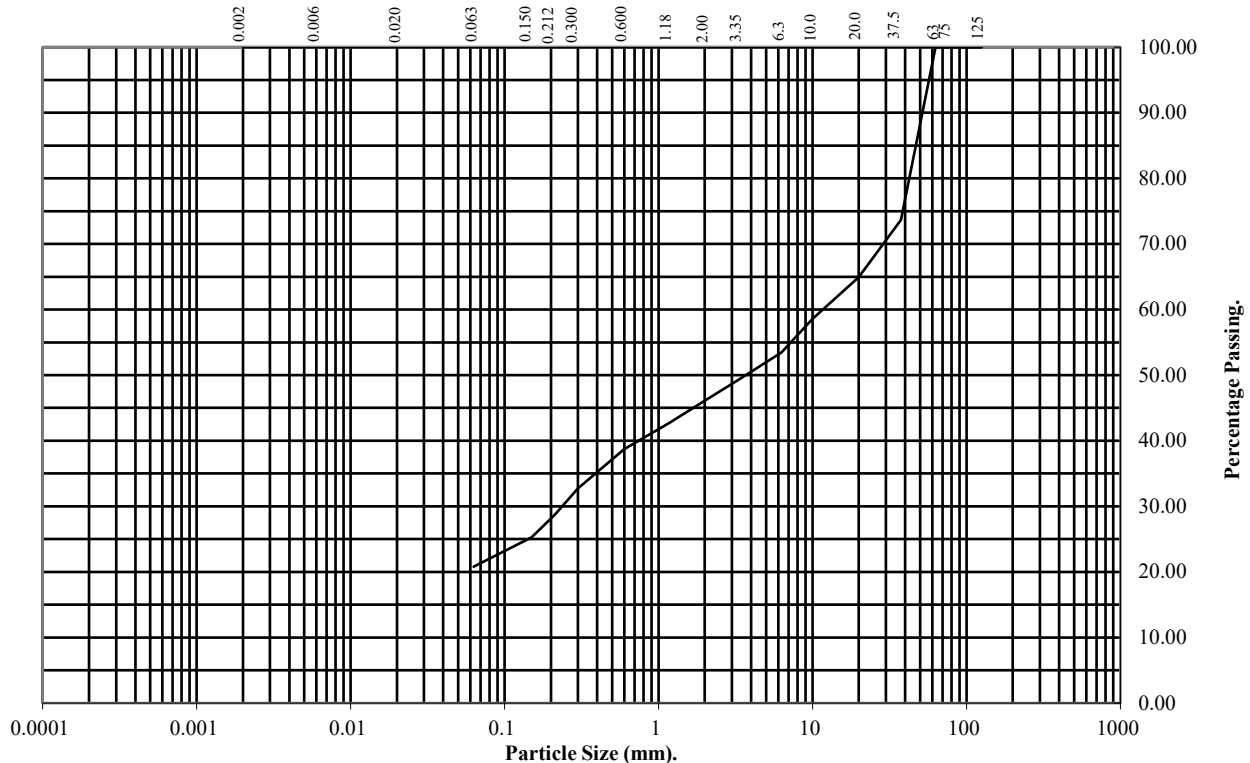
Hole Number: SW-MG-105

Top Depth (m):

Sample Number:

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	74
20	65
10	59
6.3	53
3.35	49
2	46
1.18	43
0.6	39
0.3	33
0.212	29
0.15	25
0.063	21

Soil Fraction	Total Percentage
Cobbles	0
Gravel	54
Sand	25
Silt/Clay	21

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL21/4236
Client Ref:
12-123

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

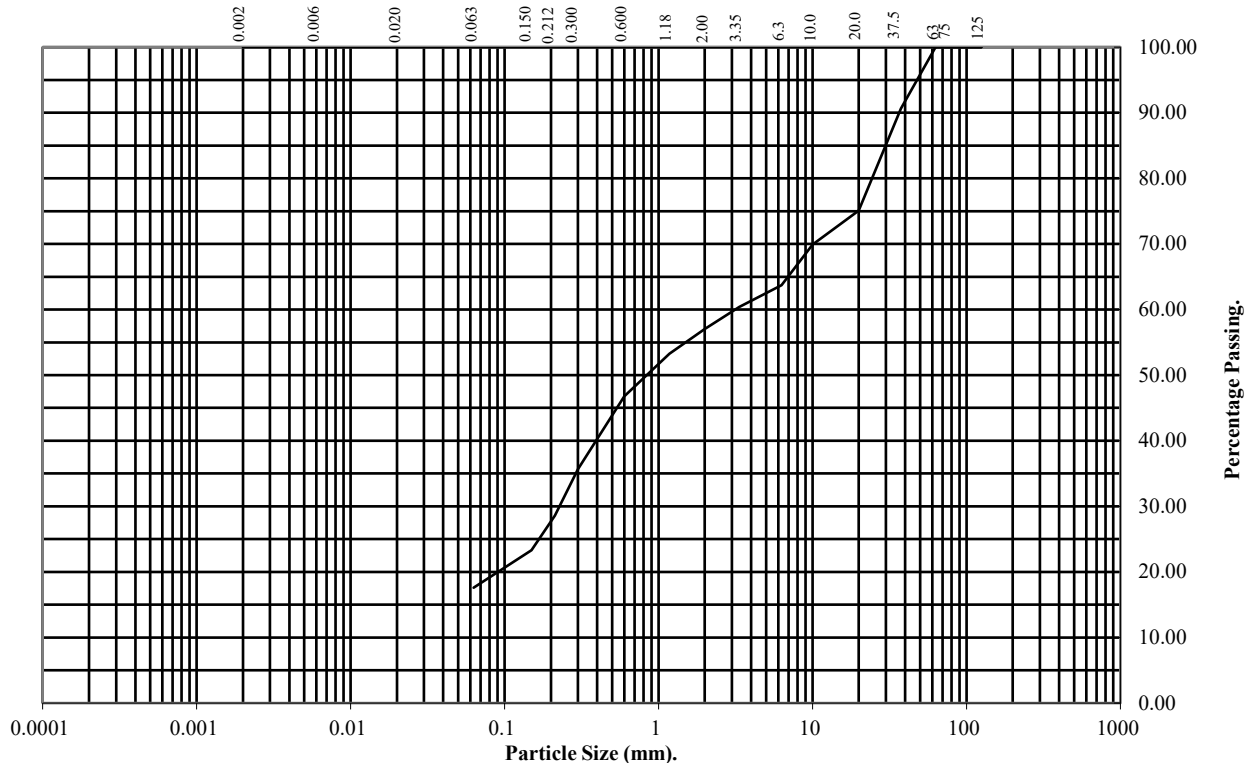
Hole Number: SW-MG-106

Top Depth (m):

Sample Number:

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	91
20	75
10	70
6.3	64
3.35	60
2	57
1.18	53
0.6	47
0.3	36
0.212	29
0.15	23
0.063	18

Soil Fraction	Total Percentage
Cobbles	0
Gravel	43
Sand	39
Silt/Clay	18

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL21/4236
Client Ref:
12-123



LABORATORY REPORT



4043

Contract Number: PSL21/6652

Report Date: 10 September 2021

Client's Reference: 12-123

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Olivia Jackson/Georgia Clavert

Contract Title: Belle Vue

Date Received: 17/8/2021

Date Commenced: 17/8/2021

Date Completed: 10/9/2021

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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Checked and Approved Signatories:

A Watkins
(Director)



L Knight
(Assistant Laboratory Manager)

R Berriman
(Quality Manager)

S Eyre
(Senior Technician)

S Royle
(Laboratory Manager)

T Watkins
(Senior Technician)

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e-mail: rberriman@prosoils.co.uk
awatkins@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043

PSL
Professional Soils Laboratory

Belle Vue

Contract No:

PSL21/6652

Client Ref:

12-123

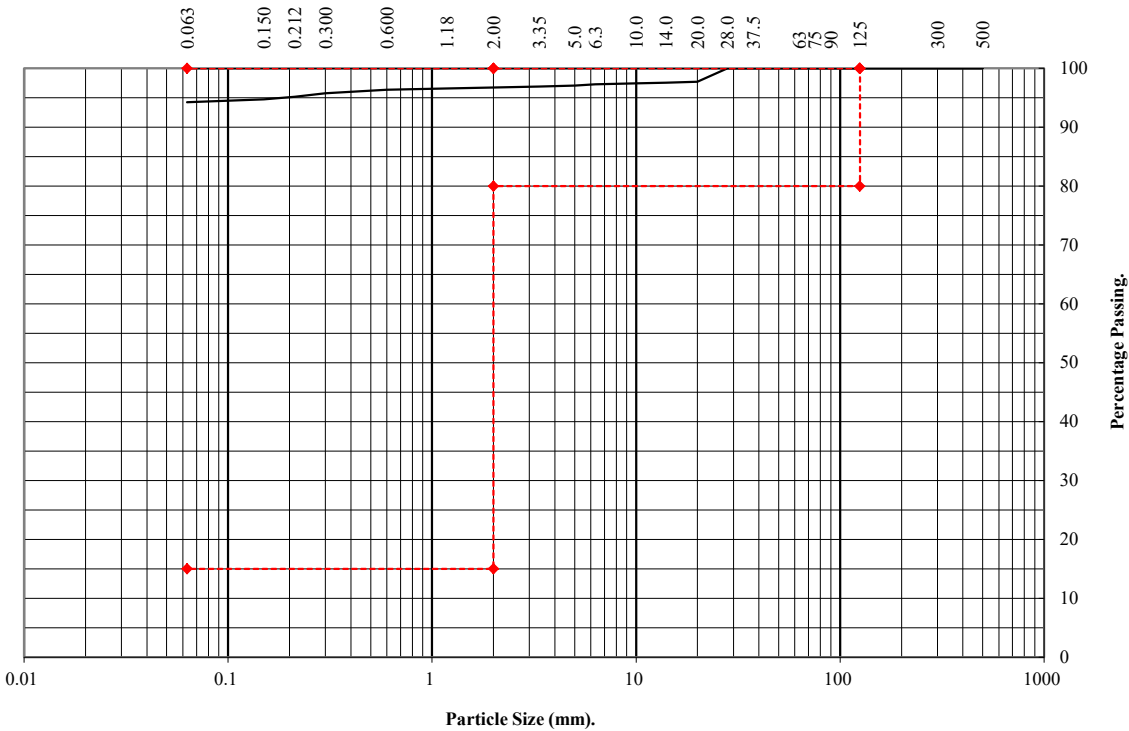
PARTICLE SIZE DISTRIBUTION TEST

BS1377:Part 2:1990

Wet Sieve: Clause 9.2

Classification for Acceptable Earthworks Materials

Sample Number: SW-MG-07 Classification Type: 2A



BS Test Sieve mm	Percentage Passing %	Table 6/2 Grading Requirements	
		Lower	Upper
500	100		
300	100		
125	100	100	100
90	100		
75	100		
63	100		
37.5	100		
28	100		
20	98		
14	98		
10	97		
6.3	97		
5	97		
3.35	97		
2	97	80	100
1.18	97		
0.6	96		
0.3	96		
0.212	95		
0.15	95		
0.063	94	15	100

Remarks:
SHW Series 600 Table 6/2 :
Class 2A



Belle Vue

Contract No.:
PSL21/6652
Client Ref:
12-123

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

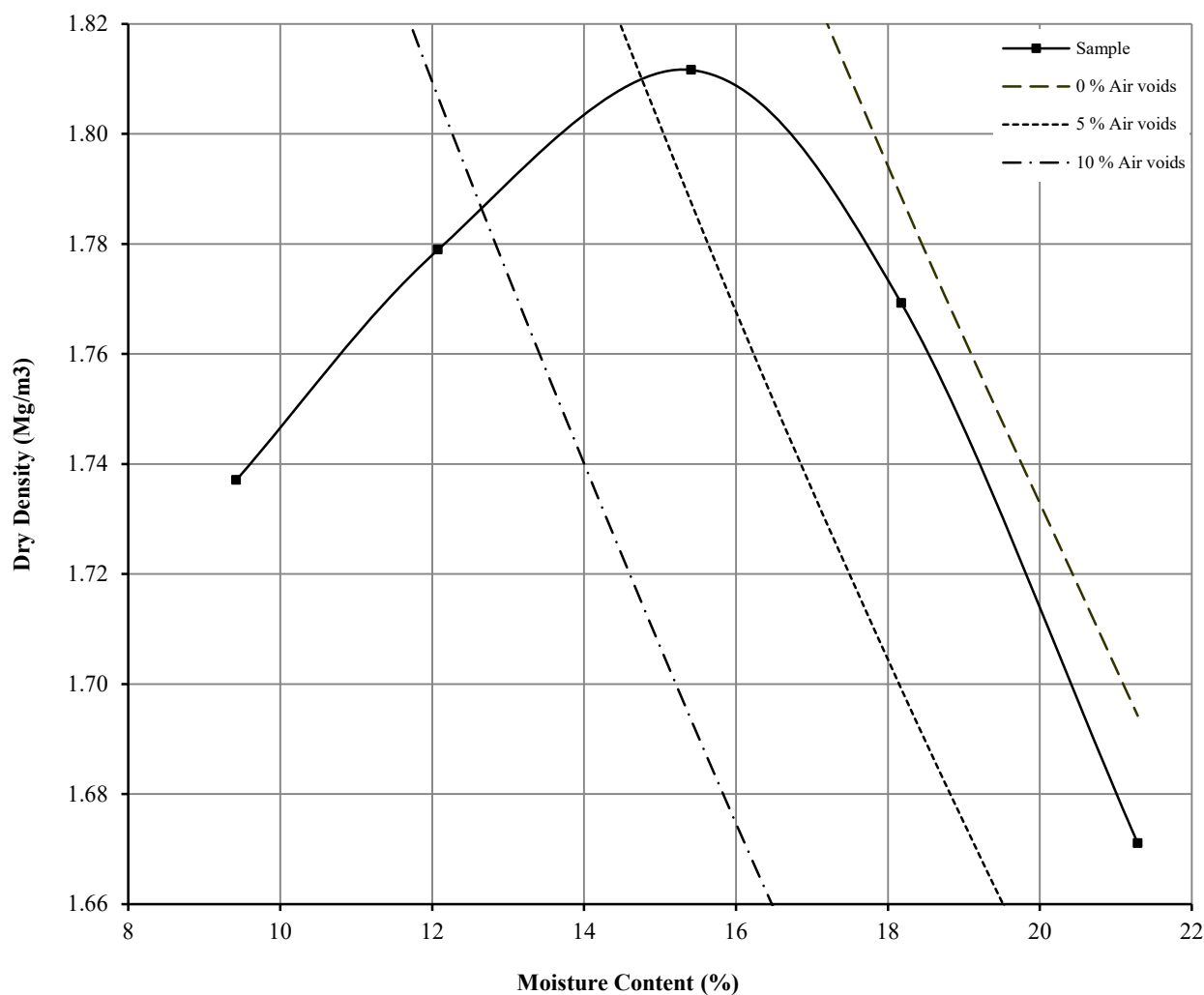
Hole Number: SW-MG-07

Top Depth (m) :

Sample Number:

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	18	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.65	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.81		Material Retained on 20.0 mm Test Sieve (%):	2
Optimum Moisture Content (%):	15			
Remarks See summary of soil descriptions				



PSL
Professional Soils Laboratory

Belle Vue

Contract
PSL21/6652
Client Ref
12-123



]

LABORATORY REPORT



4043

Contract Number: PSL21/7702

Report Date: 29 October 2021

Client's Reference: 12-123

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Olivia Jackson/Georgia Clavert

Contract Title: Belle Vue

Date Received: 27/9/2021

Date Commenced: 27/9/2021

Date Completed: 28/10/2021

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)



L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)

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awatkins@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043

PSL
Professional Soils Laboratory

Belle Vue

Contract No:**PSL21/7702****Client Ref:**

12-123-GC-Y

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

[illegible]

SYMBOLS : NP : Non Plastic

*** : Liquid Limit and Plastic Limit Wet Sieved.**



4043

PSL

Professional Soils Laboratory

Belle Vue

Contract No:

PSL21/7702

Client Ref:

12-123-GC-Y



LABORATORY REPORT



4043

Contract Number: PSL21/7958

Report Date: 04 November 2021

Client's Reference: 12-123

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Olivia Jackson/Georgia Calvert

Contract Title: Belle Vue

Date Received: 7/10/2021

Date Commenced: 7/10/2021

Date Completed: 4/11/2021

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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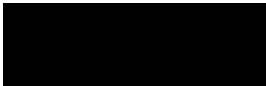
Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)


S Eyre
(Senior Technician)

T Watkins
(Senior Technician)

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e-mail: rberriman@prosoils.co.uk
awatkins@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043



PSL
Professional Soils Laboratory

Belle Vue

Contract No:

PSL21/7958

Client Ref:

12-123

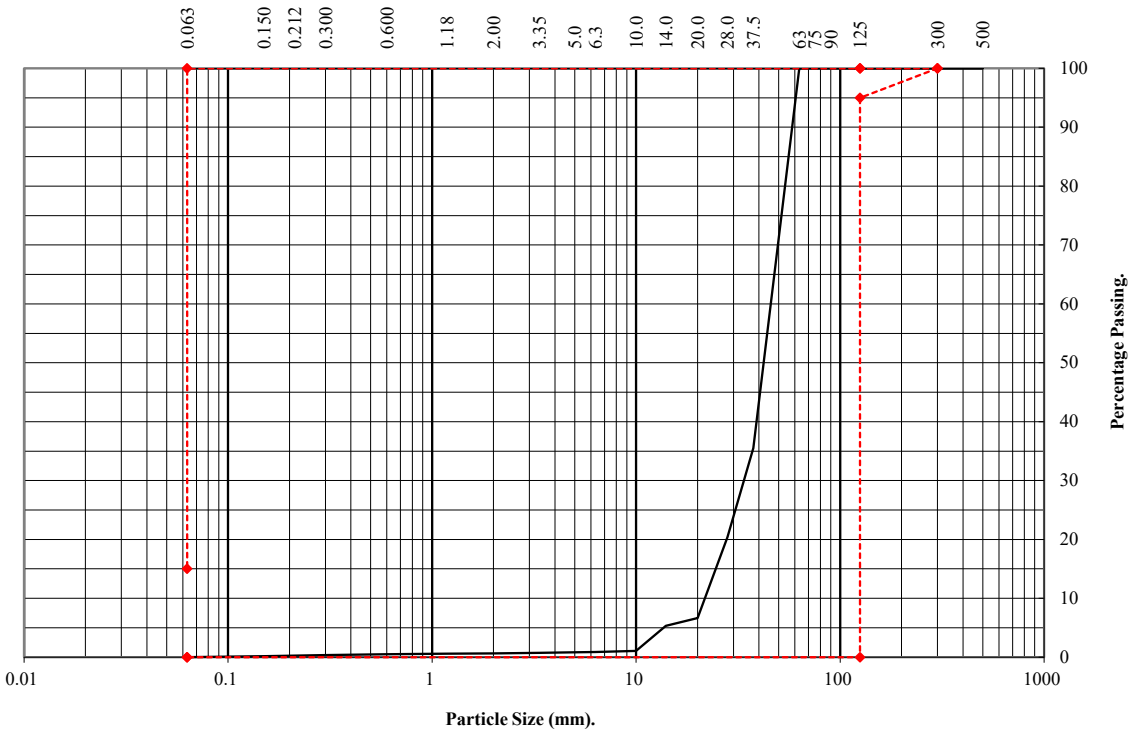
PARTICLE SIZE DISTRIBUTION TEST

BS1377:Part 2:1990

Wet Sieve: Clause 9.2

Classification for Acceptable Earthworks Materials

Sample Number: SW-CRUSH-002 Classification Type: 1A



BS Test Sieve mm	Percentage Passing %	Table 6/2 Grading Requirements	
		Lower	Upper
500	100		
300	100	100	100
125	100	95	100
90	100		
75	100		
63	100		
37.5	36		
28	20		
20	7		
14	5		
10	1		
6.3	1		
5	1		
3.35	1		
2	1		
1.18	1		
0.6	1		
0.3	0		
0.212	0		
0.15	0		
0.063	0	0	15

Remarks:
SHW Series 600 Table 6/2 :
Class 1A



LABORATORY REPORT



4043

Contract Number: PSL22/1653

Report Date: 25 March 2022

Client's Reference: 000804

Client Name: E3P
Taylor Road
Urmston
Manchester
M41 7JQ

For the attention of: Olivia Jackson/G Calvert

Contract Title: Belle Vue

Date Received: 4/3/2022
Date Commenced: 4/3/2022
Date Completed: 25/3/2022

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

[Redacted]
(Assistant Laboratory Manager)

[Redacted]
(Senior Technician)

[Redacted]
[Redacted]
(Senior Technician)

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e-mail: rberriman@prosoils.co.uk
awatkins@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043

PSL
Professional Soils Laboratory

Belle Vue

Contract No:

PSL22/1653

Client Ref:

804

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number:

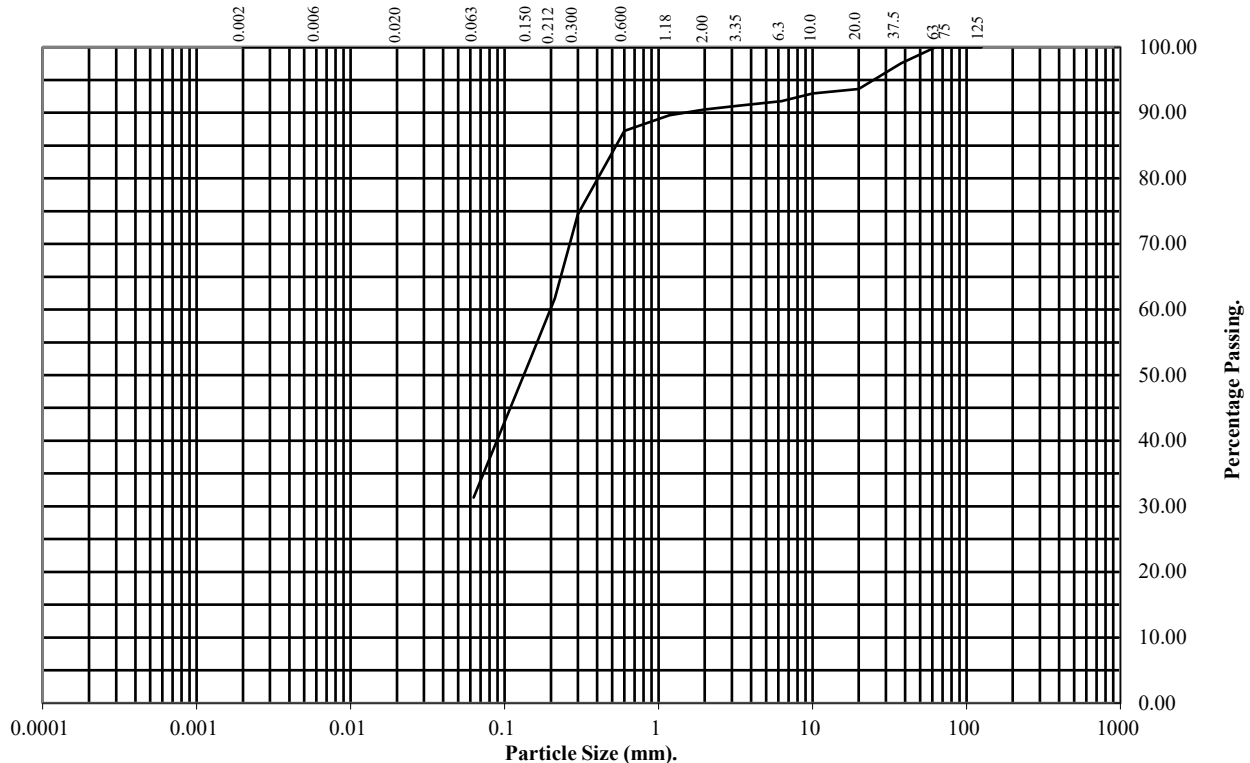
Import 201

Top Depth (m):

Sample Number:

Base Depth(m):

Sample Type:



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	98
20	94
10	93
6.3	92
3.35	91
2	90
1.18	90
0.6	87
0.3	75
0.212	62
0.15	53
0.063	31

Soil Fraction	Total Percentage
Cobbles	0
Gravel	10
Sand	59
Silt/Clay	31

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

Belle Vue

Contract No:
PSL22/1653
Client Ref:
804

TEST REPORT

Client e3p

Address Taylor Road
Trafford Park
Urmston
Manchester
M41 7JQ

Contract Belle Vue

Job Number MRN 4098/100
Date of Issue 16 December 2021
Pages 1 of 5

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
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Andrew House, Hadfield Street, Dukinfield, Cheshire SK16 4QX Tel: 0161 475 0870
Email: enquiries@murrayrix.com Website: www.murrayrix.com

Also at: London: 020 8523 1999

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MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINIFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870

**TEST CERTIFICATE**

DRY DENSITY/MOISTURE CONTENT RELATIONSHIP 4.5 kg RAMMER

BS1377: PART 4: 1990

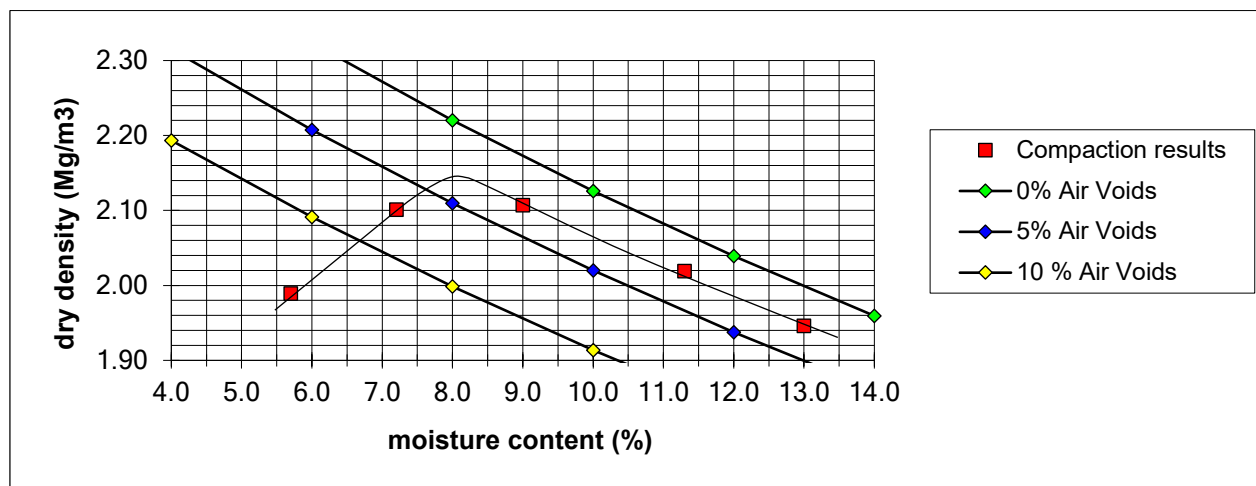
PARTICLE DENSITY METHOD BS 1377: PART 2: 1990 Clause 8.2

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4098/100

SAMPLE LABEL	Clay 101	DATE SAMPLED	29-Nov-21
LAB SAMPLE No	107139	DATE RECEIVED	01-Dec-21
DATE TESTED	03-Dec-21	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY
ADVISED SOURCE	Site Won
PRE TREATMENT	Air dried/Separate Batches, sample reduced to <5mm

Point Number	Moisture Content (%)	Dry Density (Mg/m ³)
1	5.7	1.989
2	7.2	2.101
3	9.0	2.107
4	11.3	2.019
5	13.0	1.946
Optimum	8.0	
Maximum		2.14
Specific Gravity	2.7 (Assumed)	

**REMARKS/ABNORMALITIES**

Percentage of material retained on 37.5mm sieve = 0%

Percentage of material retained on 20mm sieve = 2%

As received moisture content = 16%

SIGNED

NAME O.P. Davies (BA Hons)
(Laboratory Manager)

DATE

16-Dec-21

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE
MOISTURE CONDITION VALUE
BS 1377: PART 4: Clause 5.4: 1990

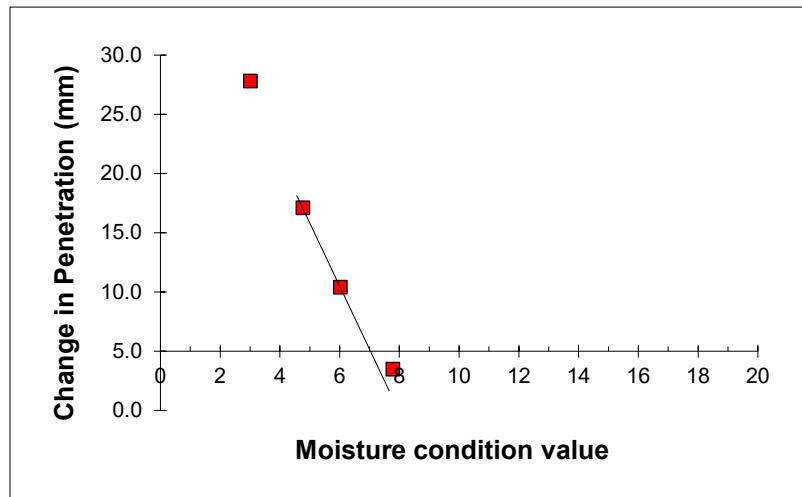
CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4098/100

SAMPLE LABEL	Clay 101	DATE SAMPLED	29-Nov-21
LAB SAMPLE No	107139	DATE RECEIVED	01-Dec-21
DATE TESTED	06-Dec-21	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY
ADVISED SOURCE	Site Won
PROPORTION LARGER THAN 20 mm	2%
INTERPRETATION OF TEST CURVE	Straight line

Total number of blows n	Penetration (mm)	Change in penetration n to 4n (mm)
1	106.3	37.9
2	86.6	27.8
3	75.3	17.1
4	68.4	10.4
6	61.1	3.5
8	58.8	
12	58.2	
16	58.0	
24	57.6	
32		
48		
64		
96		
128		
192		
256		
384		

Moisture Condition Value = 7.0
Moisture content = 16



REMARKS

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 16-Dec-21

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINIFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870

**TEST CERTIFICATE**

DRY DENSITY/MOISTURE CONTENT RELATIONSHIP 4.5 kg RAMMER

BS1377: PART 4: 1990

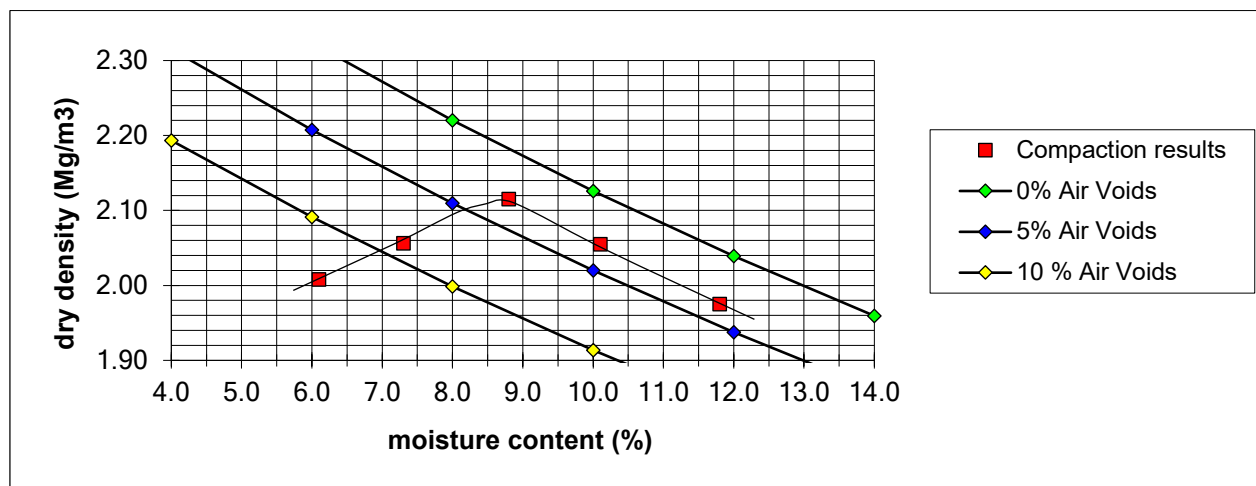
PARTICLE DENSITY METHOD BS 1377: PART 2: 1990 Clause 8.2

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4098/100

SAMPLE LABEL	Clay 102	DATE SAMPLED	29-Nov-21
LAB SAMPLE No	107140	DATE RECEIVED	01-Dec-21
DATE TESTED	03-Dec-21	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY
ADVISED SOURCE	Site Won
PRE TREATMENT	Air dried/Separate Batches, sample reduced to <5mm

Point Number	Moisture Content (%)	Dry Density (Mg/m ³)
1	6.1	2.008
2	7.3	2.056
3	8.8	2.115
4	10.1	2.055
5	11.8	1.975
Optimum	8.8	
Maximum		2.11
Specific Gravity	2.7 (Assumed)	

**REMARKS/ABNORMALITIES**

Percentage of material retained on 37.5mm sieve = 0%

Percentage of material retained on 20mm sieve = 11%

As received moisture content = 17%

SIGNED

NAME **O.P. Davies (BA Hons)**
(Laboratory Manager)

DATE

16-Dec-21

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE
MOISTURE CONDITION VALUE
BS 1377: PART 4: Clause 5.4: 1990

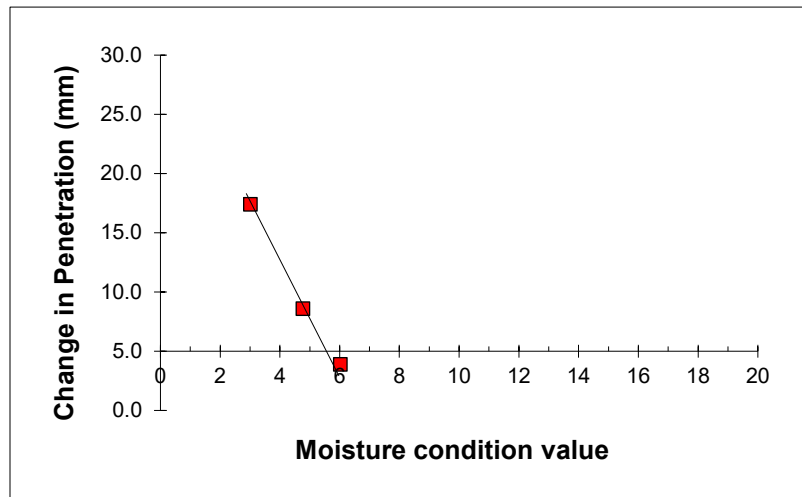
CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4098/100

SAMPLE LABEL	Clay 102	DATE SAMPLED	29-Nov-21
LAB SAMPLE No	107140	DATE RECEIVED	01-Dec-21
DATE TESTED	06-Dec-21	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY
ADVISED SOURCE	Site Won
PROPORTION LARGER THAN 20 mm	11%
INTERPRETATION OF TEST CURVE	Straight line

Total number of blows n	Penetration (mm)	Change in penetration n to 4n (mm)
1	95.4	32.4
2	76.7	17.4
3	67.9	8.6
4	63.0	3.9
6	60.9	
8	59.3	
12	59.3	
16	59.1	
24		
32		
48		
64		
96		
128		
192		
256		
384		

Moisture Condition Value = 5.7
Moisture content = 17



REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

16-Dec-21

TEST REPORT

Client e3p

Address Taylor Road
Trafford Park
Urmston
Manchester
M41 7JQ

Contract Belle Vue

Job Number MRN 4287/55
Date of Issue 29 April 2022
Pages 1 of 11

Approved Signatories

S J Hutchings, O P Davies

Notes

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TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

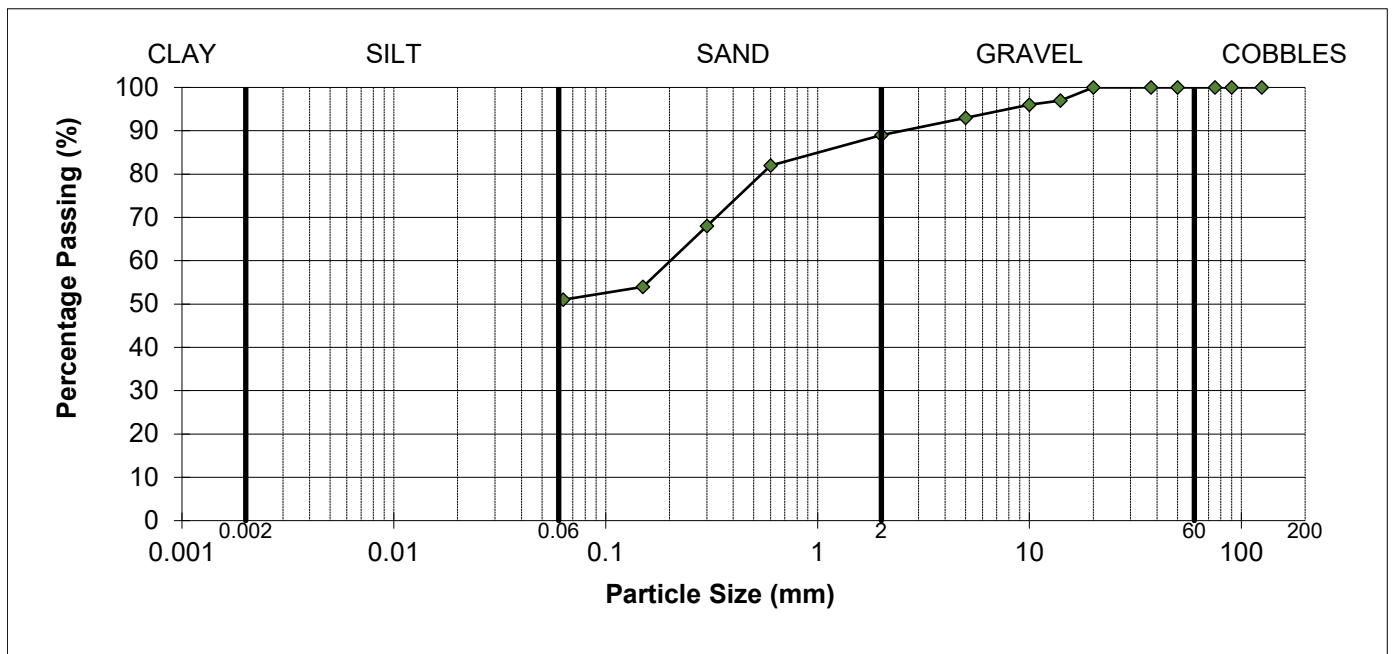
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4287/55

SAMPLE LABEL	TP146 SAND IMPORT 101	DATE SAMPLED	21-Apr-22
LAB SAMPLE No	111494	DATE RECEIVED	21-Apr-22
DATE TESTED	22-Apr-22	SAMPLED BY	Client

MATERIAL	Sand
ADVISED SOURCE	Imported

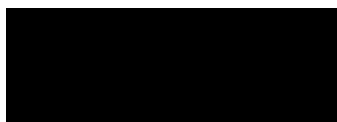
Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	96	
90	100		5	93	
75	100		2	89	80-100
50	100		0.6	82	
37.5	100		0.3	68	
20	100		0.15	54	
14	97		0.063	51	15-100



REMARKS

Sample complies with the advised grading specification for a 2A/2B material (SHW 2016)
 As received moisture content = 14%

SIGNED



NAME O.P. Davies BA (Hons)
 (Laboratory Manager)

DATE

29-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET

DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

**TEST CERTIFICATE**

DRY DENSITY/MOISTURE CONTENT RELATIONSHIP 4.5kg RAMMER

BS 1377: PART 4: 1990

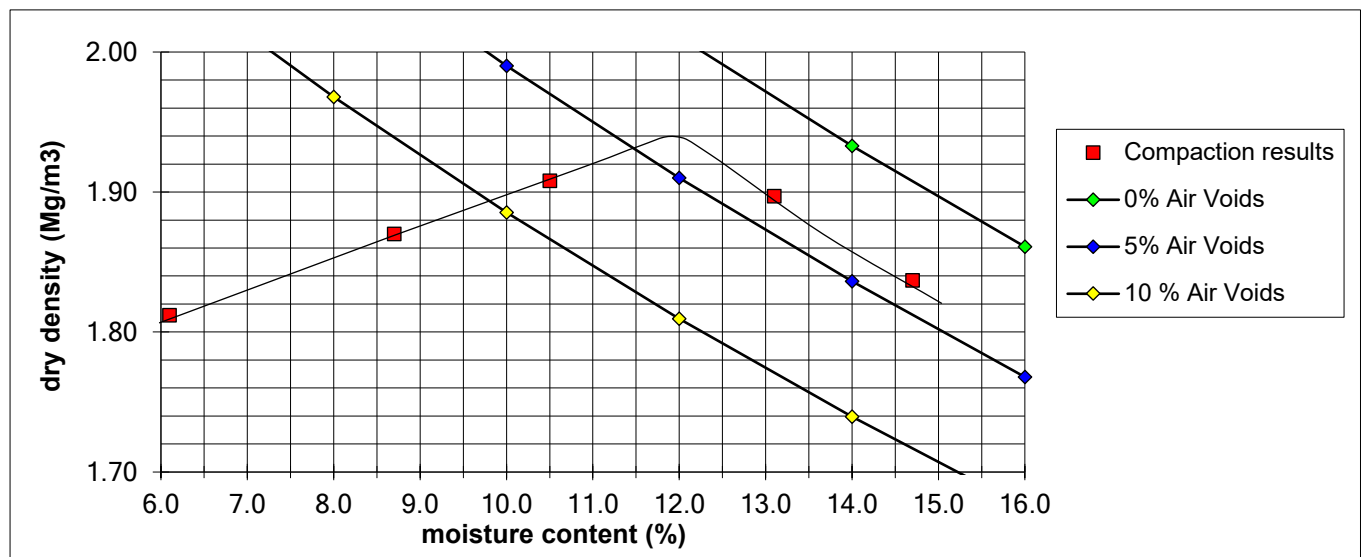
PARTICLE DENSITY METHOD BS 1377: PART 2: 1990 Clause 8.2

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4287/55

SAMPLE LABEL	See remarks	DATE SAMPLED	21-Apr-22
LAB SAMPLE No	111494	DATE RECEIVED	21-Apr-22
DATE TESTED	22-Apr-22	SAMPLED BY	Client

MATERIAL	Sand
ADVISED SOURCE	Imported
PRE TREATMENT	Air Dried/Separate Batches

Point Number	Moisture Content (%)	Dry Density (Mg/m ³)
1	6.1	1.812
2	8.7	1.870
3	10.5	1.908
4	13.1	1.897
5	14.7	1.837
Optimum Maximum Particle Density	12.0	1.94
	2.65 (Assumed)	



REMARKS/ABNORMALITIES

Percentage of material retained on 37.5mm sieve = 0%

Percentage of material retained on 20mm sieve = 0%

Sample label - TP146 SAND IMPORT 101

SIGNED

 NAME O.P. Davies BA (Hons)
 (Laboratory Manager)

DATE

29-Apr-22

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

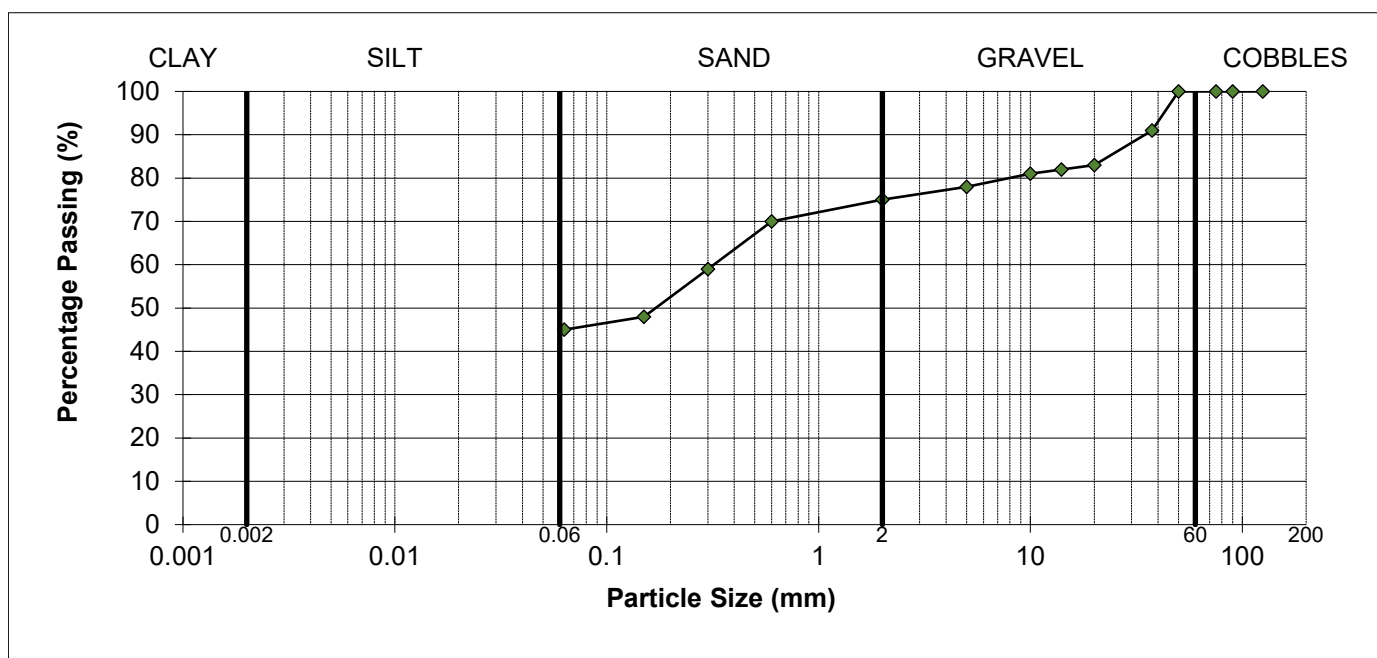
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4287/55

SAMPLE LABEL	TP146 SAND IMPORT 102	DATE SAMPLED	21-Apr-22
LAB SAMPLE No	111495	DATE RECEIVED	21-Apr-22
DATE TESTED	22-Apr-22	SAMPLED BY	Client

MATERIAL	Sand
ADVISED SOURCE	Imported

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	81	
90	100		5	78	
75	100		2	75	15-80
50	100		0.6	70	
37.5	91		0.3	59	
20	83		0.15	48	
14	82		0.063	45	15-80



REMARKS

Sample complies with the advised grading specification for a 2C material (SHW 2016)

As received moisture content = 14%

SIGNED



NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

29-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET

DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

**TEST CERTIFICATE**

DRY DENSITY/MOISTURE CONTENT RELATIONSHIP 4.5kg RAMMER

BS 1377: PART 4: 1990

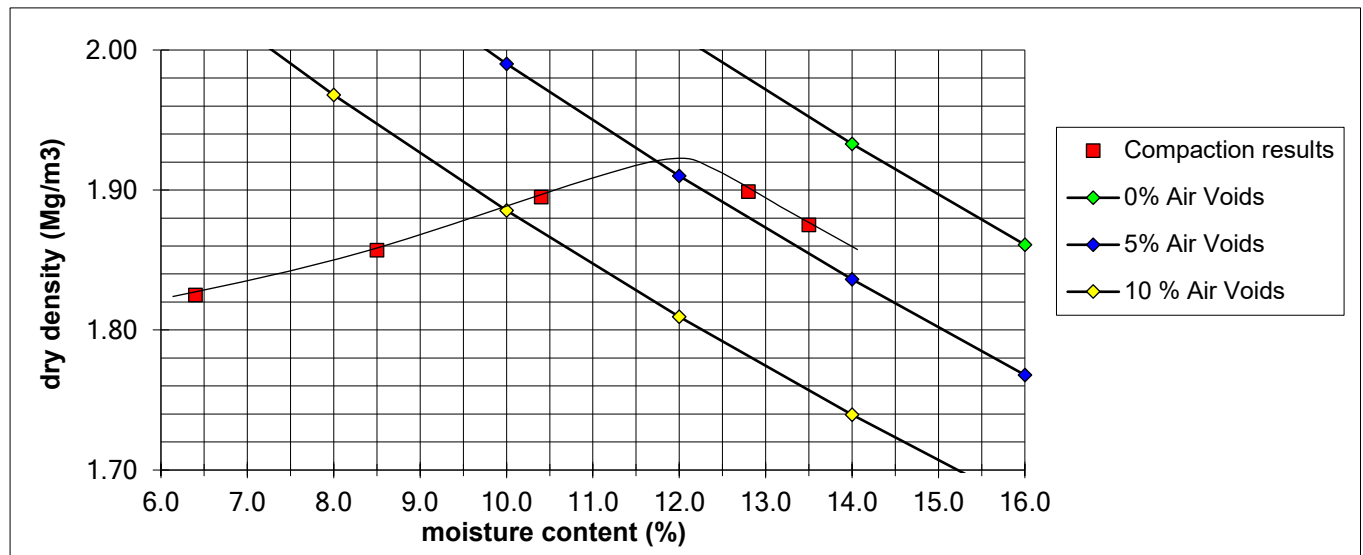
PARTICLE DENSITY METHOD BS 1377: PART 2: 1990 Clause 8.2

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4287/55

SAMPLE LABEL	See remarks	DATE SAMPLED	21-Apr-22
LAB SAMPLE No	111495	DATE RECEIVED	21-Apr-22
DATE TESTED	22-Apr-22	SAMPLED BY	Client

MATERIAL	Sand
ADVISED SOURCE	Imported
PRE TREATMENT	Air Dried/Separate Batches

Point Number	Moisture Content (%)	Dry Density (Mg/m3)
1	6.4	1.825
2	8.5	1.857
3	10.4	1.895
4	12.8	1.899
5	13.5	1.875
Optimum Maximum Particle Density	12.0	1.92
	2.65 (Assumed)	



REMARKS/ABNORMALITIES

Percentage of material retained on 37.5mm sieve = 9%

Percentage of material retained on 20mm sieve = 17%

Sample label - TP146 SAND IMPORT 102

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

29-Apr-22

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

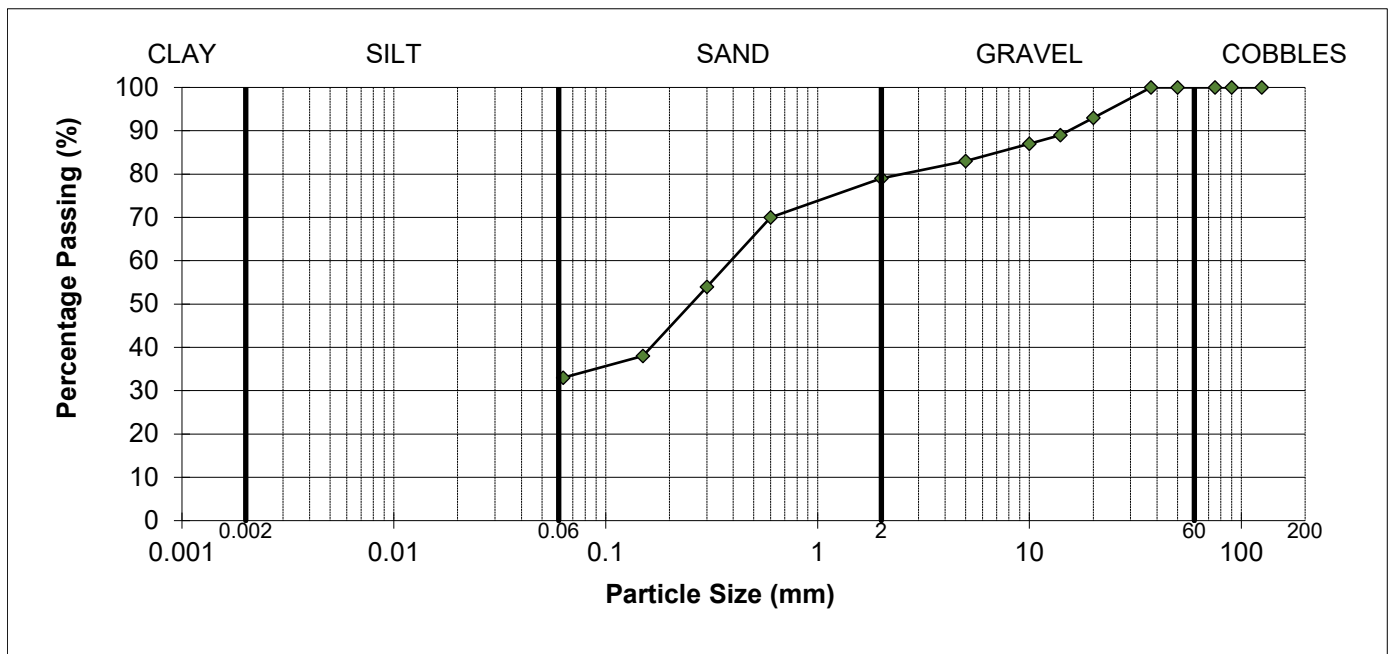
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4287/55

SAMPLE LABEL	TP146 SAND IMPORT 103	DATE SAMPLED	21-Apr-22
LAB SAMPLE No	111496	DATE RECEIVED	21-Apr-22
DATE TESTED	22-Apr-22	SAMPLED BY	Client

MATERIAL	Sand
ADVISED SOURCE	Imported

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	87	
90	100		5	83	
75	100		2	79	15-80
50	100		0.6	70	
37.5	100		0.3	54	
20	93		0.15	38	
14	89		0.063	33	15-80



REMARKS

Sample complies with the advised grading specification for a 2C material (SHW 2016)

As received moisture content = 14%

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

29-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET

DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

**TEST CERTIFICATE**

DRY DENSITY/MOISTURE CONTENT RELATIONSHIP 4.5kg RAMMER

BS 1377: PART 4: 1990

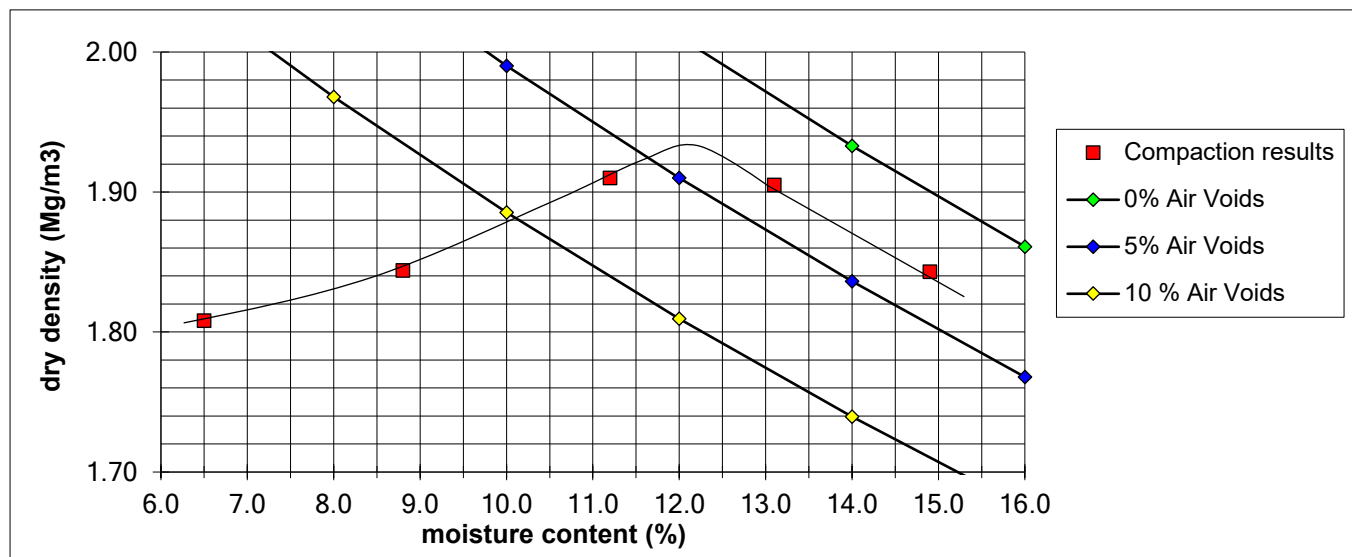
PARTICLE DENSITY METHOD BS 1377: PART 2: 1990 Clause 8.2

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4287/55

SAMPLE LABEL	See remarks	DATE SAMPLED	21-Apr-22
LAB SAMPLE No	111496	DATE RECEIVED	21-Apr-22
DATE TESTED	22-Apr-22	SAMPLED BY	Client

MATERIAL	Sand
ADVISED SOURCE	Imported
PRE TREATMENT	Air Dried/Separate Batches

Point Number	Moisture Content (%)	Dry Density (Mg/m ³)
1	6.5	1.808
2	8.8	1.844
3	11.2	1.910
4	13.1	1.905
5	14.9	1.843
Optimum Maximum Particle Density	12.0	1.93
	2.65 (Assumed)	



REMARKS/ABNORMALITIES

Percentage of material retained on 37.5mm sieve = 0%

Percentage of material retained on 20mm sieve = 7%

Sample label - TP146 SAND IMPORT 103

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

29-Apr-22

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

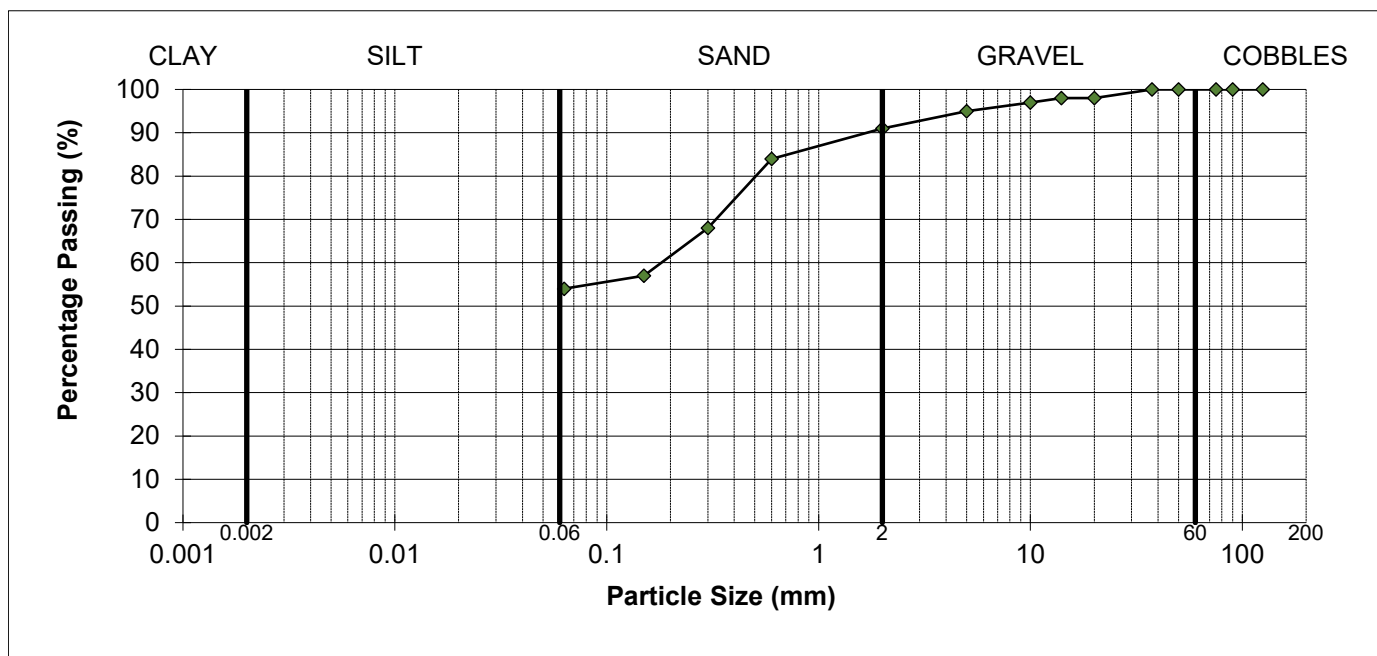
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4287/55

SAMPLE LABEL	TP146 SAND IMPORT 104	DATE SAMPLED	21-Apr-22
LAB SAMPLE No	111497	DATE RECEIVED	21-Apr-22
DATE TESTED	22-Apr-22	SAMPLED BY	Client

MATERIAL	Sand
ADVISED SOURCE	Imported

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	97	
90	100		5	95	
75	100		2	91	80-100
50	100		0.6	84	
37.5	100		0.3	68	
20	98		0.15	57	
14	98		0.063	54	15-100



REMARKS

Sample complies with the advised grading specification for a 2A/2B material (SHW 2016)

As received moisture content = 23%

SIGNED



NAME O.P. Davies BA (Hons)
 (Laboratory Manager)

DATE

29-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET

DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

**TEST CERTIFICATE**

DRY DENSITY/MOISTURE CONTENT RELATIONSHIP 4.5kg RAMMER

BS 1377: PART 4: 1990

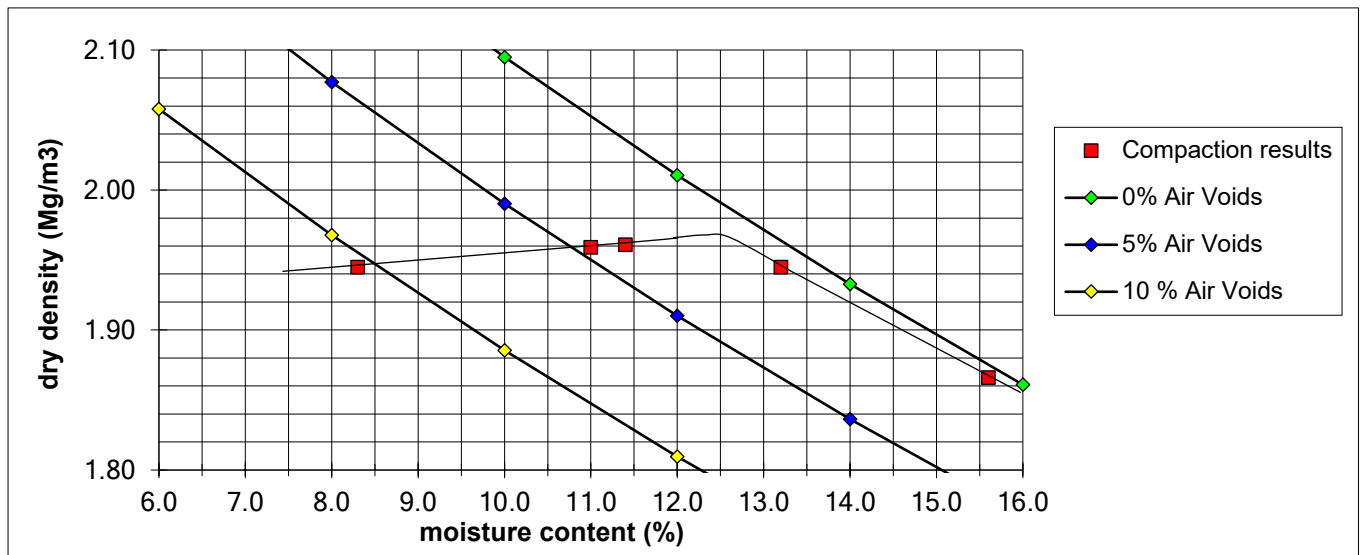
PARTICLE DENSITY METHOD BS 1377: PART 2: 1990 Clause 8.2

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4287/55

SAMPLE LABEL	See remarks	DATE SAMPLED	21-Apr-22
LAB SAMPLE No	111497	DATE RECEIVED	21-Apr-22
DATE TESTED	22-Apr-22	SAMPLED BY	Client

MATERIAL	Sand
ADVISED SOURCE	Imported
PRE TREATMENT	Air Dried/Separate Batches

Point Number	Moisture Content (%)	Dry Density (Mg/m3)
1	8.3	1.945
2	11.0	1.959
3	11.4	1.961
4	13.2	1.945
5	15.6	1.866
Optimum Maximum Particle Density	12.0	1.97
	2.65 (Assumed)	



REMARKS/ABNORMALITIES

Percentage of material retained on 37.5mm sieve = 0%

Percentage of material retained on 20mm sieve = 2%

Sample label - TP146 SAND IMPORT 104

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

29-Apr-22

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

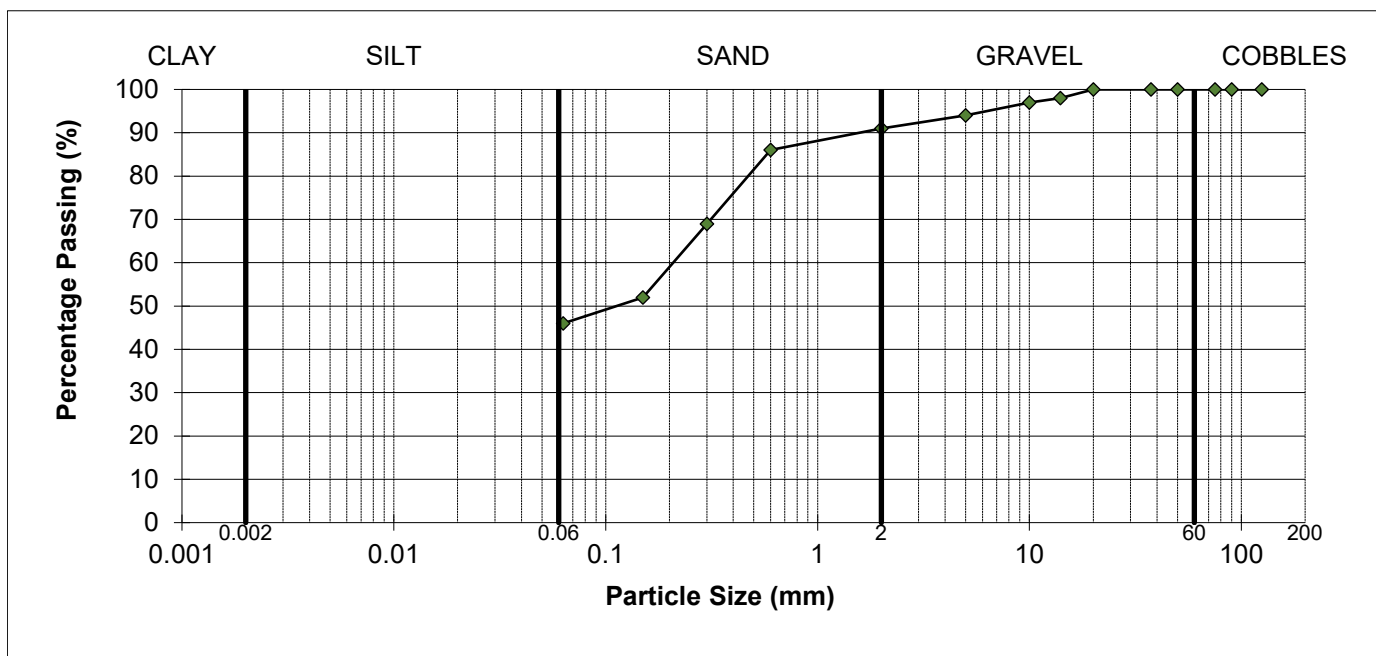
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4287/55

SAMPLE LABEL	TP146 SAND IMPORT 105	DATE SAMPLED	21-Apr-22
LAB SAMPLE No	111498	DATE RECEIVED	21-Apr-22
DATE TESTED	22-Apr-22	SAMPLED BY	Client

MATERIAL	Sand
ADVISED SOURCE	Imported

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100	100	10	97	
90	100		5	94	
75	100		2	91	80-100
50	100		0.6	86	
37.5	100		0.3	69	
20	100		0.15	52	
14	98		0.063	46	15-100



REMARKS

Sample complies with the advised grading specification for a 2A/2B material (SHW 2016)

As received moisture content = 23%

SIGNED



NAME

O.P. Davies BA (Hons)
 (Laboratory Manager)

DATE

29-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET

DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

**TEST CERTIFICATE**

DRY DENSITY/MOISTURE CONTENT RELATIONSHIP 4.5kg RAMMER

BS 1377: PART 4: 1990

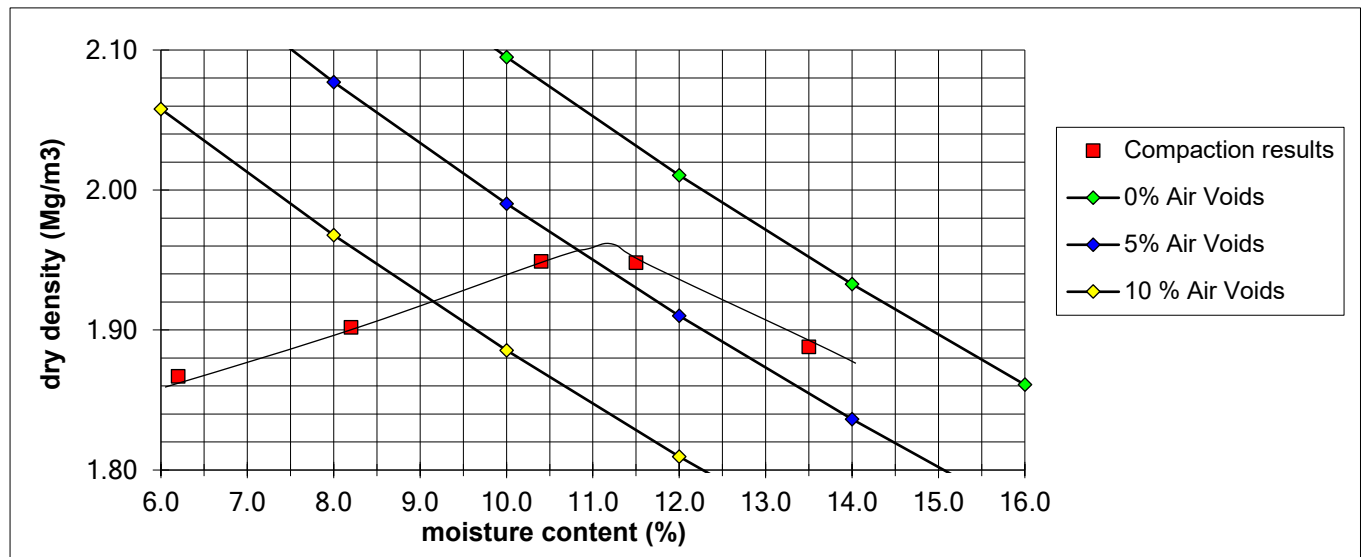
PARTICLE DENSITY METHOD BS 1377: PART 2: 1990 Clause 8.2

CLIENT	e3p
SITE	Belle Vue
JOB NUMBER	MRN 4287/55

SAMPLE LABEL	See remarks	DATE SAMPLED	21-Apr-22
LAB SAMPLE No	111498	DATE RECEIVED	21-Apr-22
DATE TESTED	22-Apr-22	SAMPLED BY	Client

MATERIAL	Sand
ADVISED SOURCE	Imported
PRE TREATMENT	Air Dried/Separate Batches

Point Number	Moisture Content (%)	Dry Density (Mg/m ³)
1	6.2	1.867
2	8.2	1.902
3	10.4	1.949
4	11.5	1.948
5	13.5	1.888
Optimum Maximum Particle Density	11.0	1.96
	2.65 (Assumed)	



REMARKS/ABNORMALITIES

Percentage of material retained on 37.5mm sieve = 0%

Percentage of material retained on 20mm sieve = 0%

Sample label - TP146 SAND IMPORT 105

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

29-Apr-22

TEST REPORT

Client Urban Regen Ltd

Address Langley Road
Pendlebury
Salford
M6 6FG

Contract Belle Vue, Kirkmanshulme Lane
Gorton, Manchester M18 7BA

Job Number MRN 4096/63

Date of Issue 01 November 2021

Total Pages 1 of 4

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.

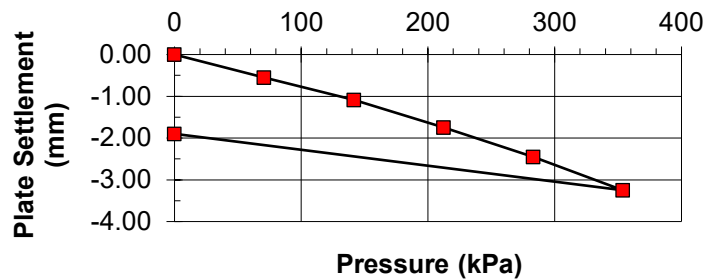
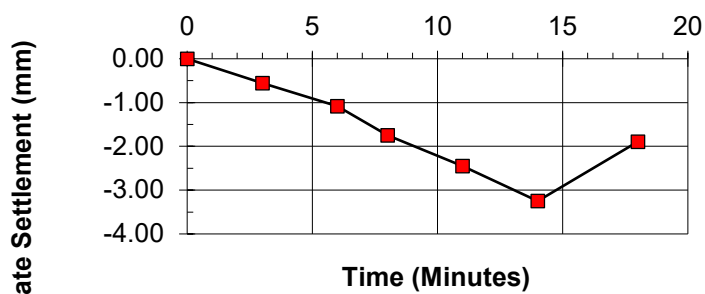
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd					
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA					
JOB NUMBER	MRN 4069/63					
TEST LOCATION	APB A - 1	LOADING DEVICE	20 Tonne Enerpac Jack			
TEST DATE	01-Nov-21	PLATE SIZE (mm)	300 diameter			
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant			
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required			

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
3165	3531	4503	3733	0.00	0.00	0.0
3095	3481	4457	3678	-0.55	5.00	70.7
3051	3418	4405	3625	-1.08	10.00	141.5
2981	3351	4343	3558	-1.75	15.00	212.2
2912	3281	4271	3488	-2.45	20.00	282.9
2831	3183	4210	3408	-3.25	25.00	353.7
2961	3318	4351	3543	-1.90	0.00	0.0



Pressure at 1.25 mm deflexion =	159 kPa
Modulus of subgrade reaction (k) =	127 MPa/m
Equivalent 762 mm plate reaction =	56 MPa/m
Equivalent CBR =	10.4 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 01-Nov-21

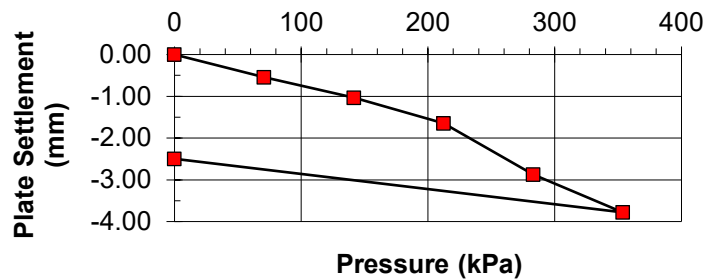
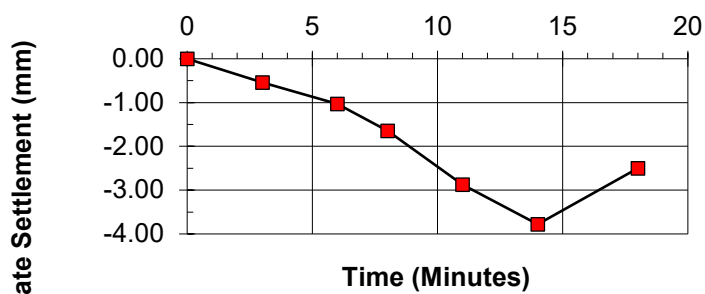
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4069/63		
TEST LOCATION	APB A - 2	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	01-Nov-21	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
2261	2518	3115	2631	0.00	0.00	0.0
2210	2461	3061	2577	-0.54	5.00	70.7
2158	2415	3012	2528	-1.03	10.00	141.5
2111	2351	2938	2467	-1.65	15.00	212.2
2001	2210	2821	2344	-2.87	20.00	282.9
1921	2128	2711	2253	-3.78	25.00	353.7
2045	2261	2838	2381	-2.50	0.00	0.0



Pressure at 1.25 mm deflexion =	167 kPa
Modulus of subgrade reaction (k) =	133 MPa/m
Equivalent 762 mm plate reaction =	59 MPa/m
Equivalent CBR =	11.3 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 01-Nov-21

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



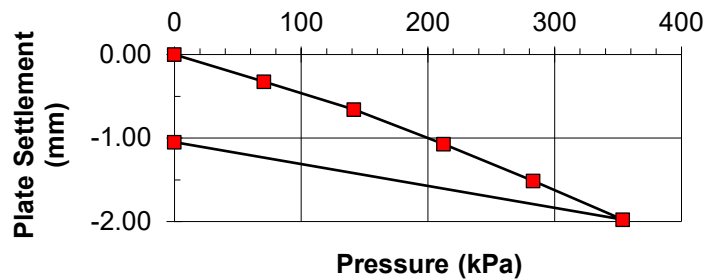
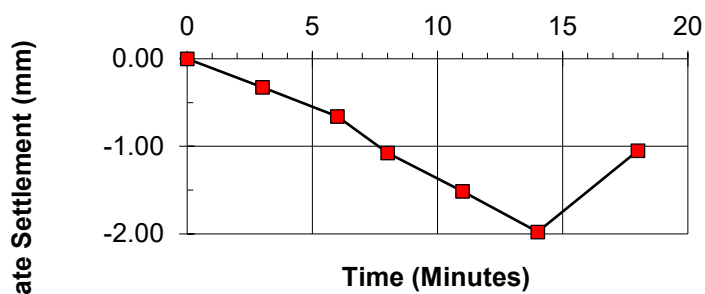
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd					
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA					
JOB NUMBER	MRN 4069/63					
TEST LOCATION	Road - 1	LOADING DEVICE	20 Tonne Enerpac Jack			
TEST DATE	01-Nov-21	PLATE SIZE (mm)	300 diameter			
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant			
MATERIAL UNDER TEST	Crush		MOISTURE CONTENT	Not Required		

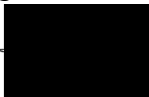
Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
2632	3612	2173	2806	0.00	0.00	0.0
2601	3575	2143	2773	-0.33	5.00	70.7
2561	3541	2118	2740	-0.66	10.00	141.5
2518	3502	2075	2698	-1.07	15.00	212.2
2471	3461	2031	2654	-1.51	20.00	282.9
2421	3411	1992	2608	-1.98	25.00	353.7
2518	3503	2081	2701	-1.05	0.00	0.0



Pressure at 1.25 mm deflexion =	241 kPa
Modulus of subgrade reaction (k) =	192 MPa/m
Equivalent 762 mm plate reaction =	85 MPa/m
Equivalent CBR =	21.3 %

REMARKS

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 01-Nov-21

TEST REPORT

Client Urban Regen Ltd

Address Langley Road
Pendlebury
Salford
M6 6FG

Contract Belle Vue, Kirkmanshulme Lane
Gorton, Manchester M18 7BA

Job Number MRN 4332/5
Date of Issue 27 January 2022
Total Pages 1 of 5

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



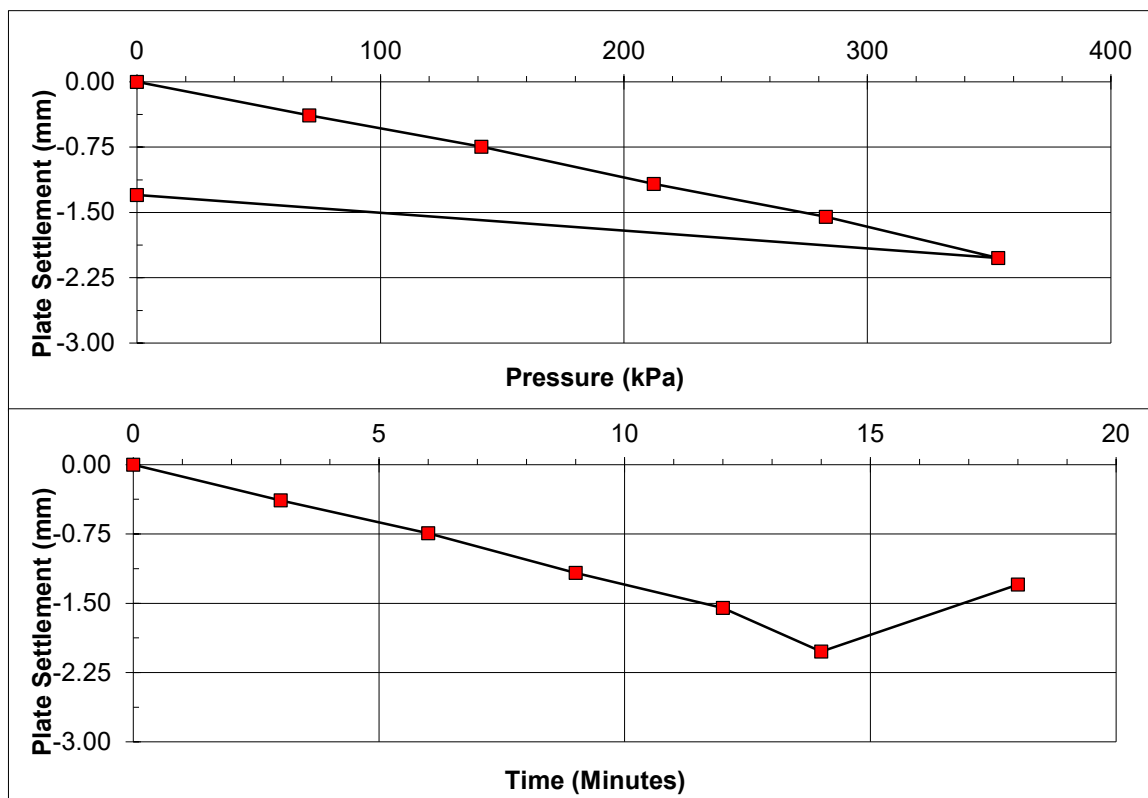
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/5		
TEST LOCATION	Test 01	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	26-Jan-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
3623	3183	4461	3756	0.00	0.00	0.0
3591	3142	4418	3717	-0.39	5.00	70.7
3542	3121	4381	3681	-0.74	10.00	141.5
3502	3068	4345	3638	-1.17	15.00	212.2
3462	3028	4312	3601	-1.55	20.00	282.9
3411	2991	4258	3553	-2.02	25.00	353.7
3495	3061	4321	3626	-1.30	0.00	0.0



Pressure at 1.25 mm deflexion =	227 kPa
Modulus of subgrade reaction (k) =	181 MPa/m
Equivalent 762 mm plate reaction =	80 MPa/m
Equivalent CBR =	19.2 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 27-Jan-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



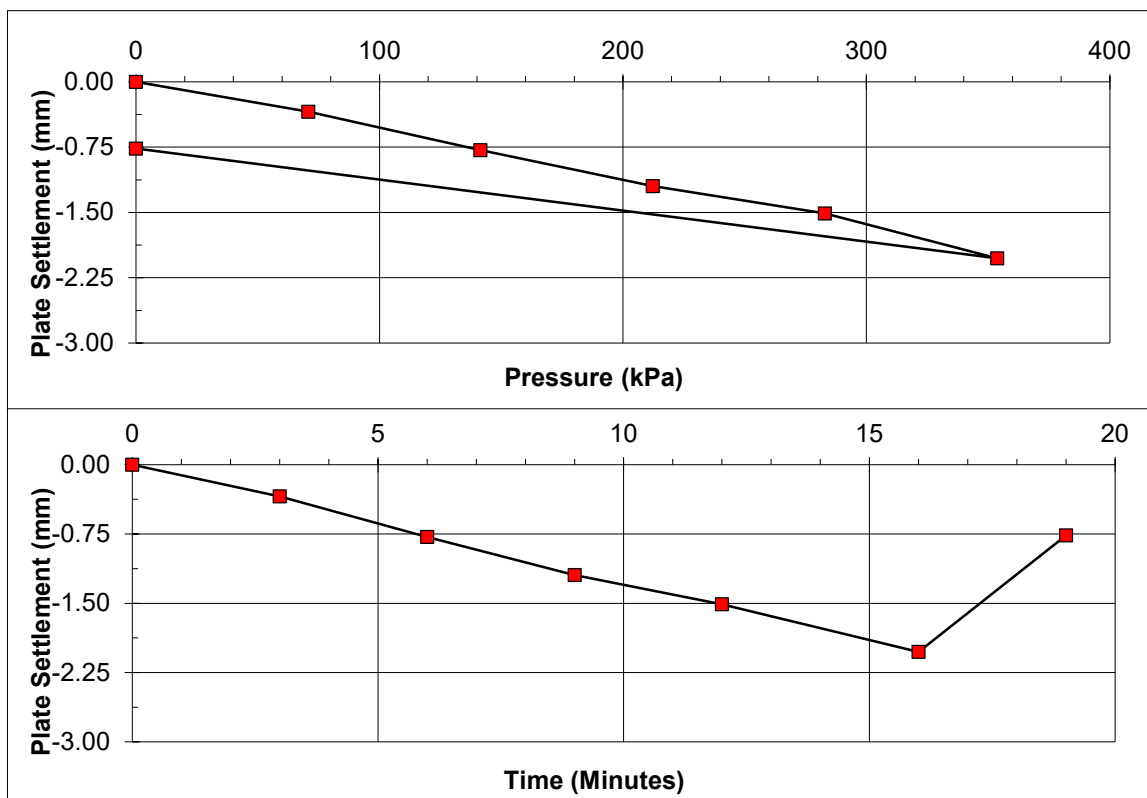
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/5		
TEST LOCATION	Test 02	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	26-Jan-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
3132	3521	3634	3429	0.00	0.00	0.0
3101	3491	3592	3395	-0.34	5.00	70.7
3058	3442	3552	3351	-0.78	10.00	141.5
3010	3403	3515	3309	-1.20	15.00	212.2
2992	3361	3481	3278	-1.51	20.00	282.9
2931	3312	3436	3226	-2.03	25.00	353.7
3061	3435	3561	3352	-0.77	0.00	0.0



Pressure at 1.25 mm deflexion =	224 kPa
Modulus of subgrade reaction (k) =	179 MPa/m
Equivalent 762 mm plate reaction =	79 MPa/m
Equivalent CBR =	18.8 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 27-Jan-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



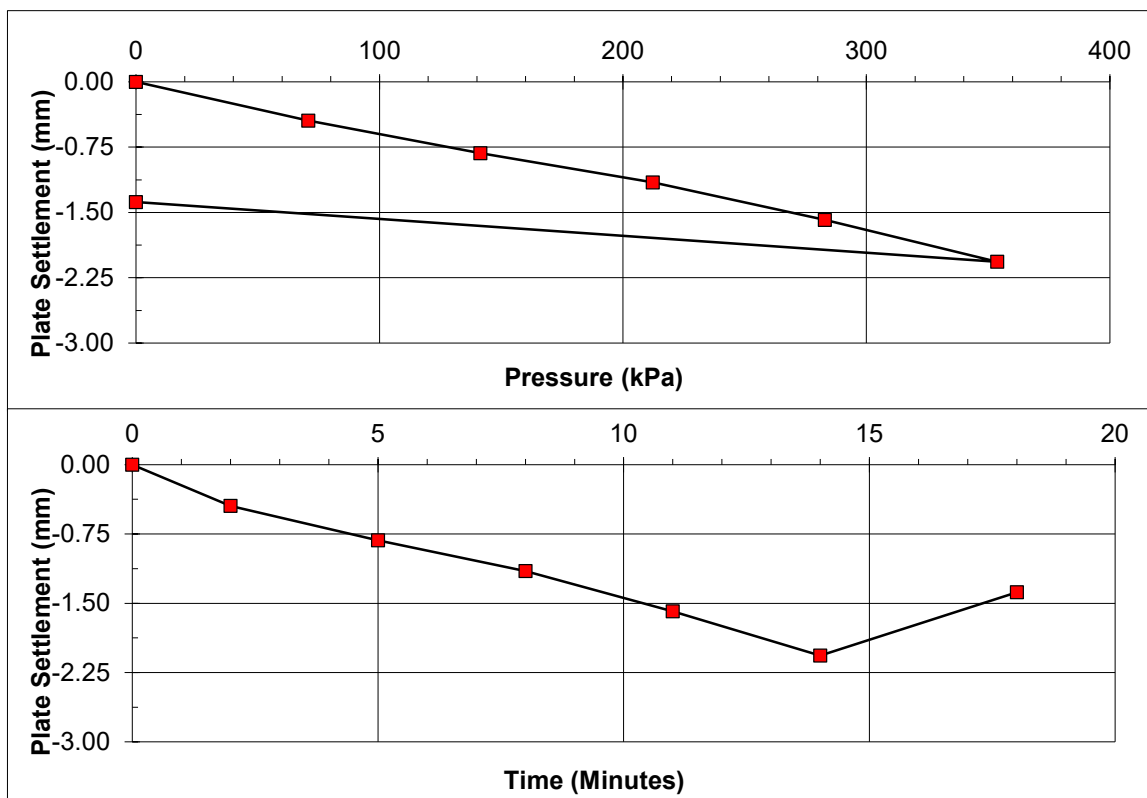
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/5		
TEST LOCATION	Test 03	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	26-Jan-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
2561	3169	2332	2687	0.00	0.00	0.0
2510	3123	2295	2643	-0.45	5.00	70.7
2472	3091	2253	2605	-0.82	10.00	141.5
2440	3058	2218	2572	-1.15	15.00	212.2
2402	3003	2181	2529	-1.59	20.00	282.9
2353	2951	2138	2481	-2.07	25.00	353.7
2415	3018	2215	2549	-1.38	0.00	0.0



Pressure at 1.25 mm deflexion =	228 kPa
Modulus of subgrade reaction (k) =	182 MPa/m
Equivalent 762 mm plate reaction =	81 MPa/m
Equivalent CBR =	19.4 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 27-Jan-22

Belle Vue Road 2

Belle Vue Road 2



- [illegible]

BUILDING REGULATIONS

NO GRADING EXCEEDING 16" TO BE IN
ELEVATIONS WITHIN 10' OF THE BOUNDARY
NO FACING BENCH CUTS ARE TO
THIN 12" OF EACH OTHER

NOTES

RATIONS GENERALLY TO BE 7700 x 1800mm LIME INDICATED OTHERWISE

PAVING SLABS TO BE OFFSET 150mm MAXIMUM FROM RATIO IN ADJACENT TO DWELLING

STAIRS, STAIR TO BE PROVIDED WHERE TURNING AS ABOUT HOUSE TO CONSIST OF 1500mm x 1000mm BUFF STONE CLIPPING

LEVEL ADJUST TO BE 150mm TO 180mm

UNCL35

- [illegible]



SCALE BAR 1.500

- [illegible]

TEST REPORT

Client Urban Regen Ltd

Address Langley Road
Pendlebury
Salford
M6 6FG

Contract Belle Vue, Kirkmanshulme Lane
Gorton, Manchester M18 7BA

Job Number MRN 4332/14
Date of Issue 15 March 2022
Total Pages 1 of 5

Approved Signatories

S J Hutchings, O P Davies

Notes

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Andrew House, Hadfield Street, Dukinfield, Cheshire SK16 4QX Tel: 0161 475 0870
Email: enquiries@murrayrix.com Website: www.murrayrix.com

Also at: London: 020 8523 1999

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MURRAY RIX

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TEL 0161 475 0870



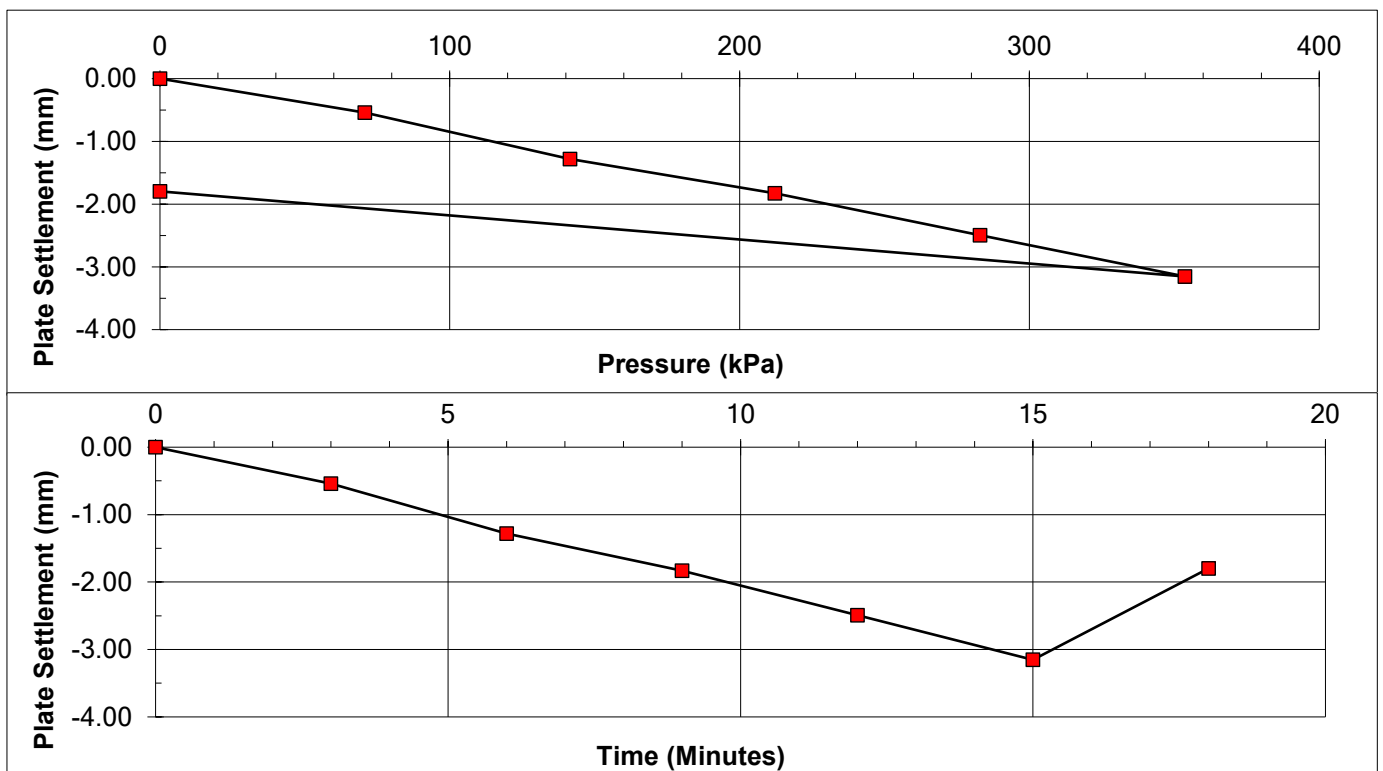
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/14		
TEST LOCATION	Plot 97/98	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	14-Mar-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
2432	2210	3138	2593	0.00	0.00	0.0
2358	2177	3083	2539	-0.54	5.00	70.7
2291	2103	3001	2465	-1.28	10.00	141.5
2228	2058	2945	2410	-1.83	15.00	212.2
2158	2003	2871	2344	-2.49	20.00	282.9
2101	1920	2813	2278	-3.15	25.00	353.7
2225	2051	2965	2414	-1.80	0.00	0.0



Pressure at 1.25 mm deflexion =	138 kPa
Modulus of subgrade reaction (k) =	111 MPa/m
Equivalent 762 mm plate reaction =	49 MPa/m
Equivalent CBR =	8.2 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 15-Mar-22

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



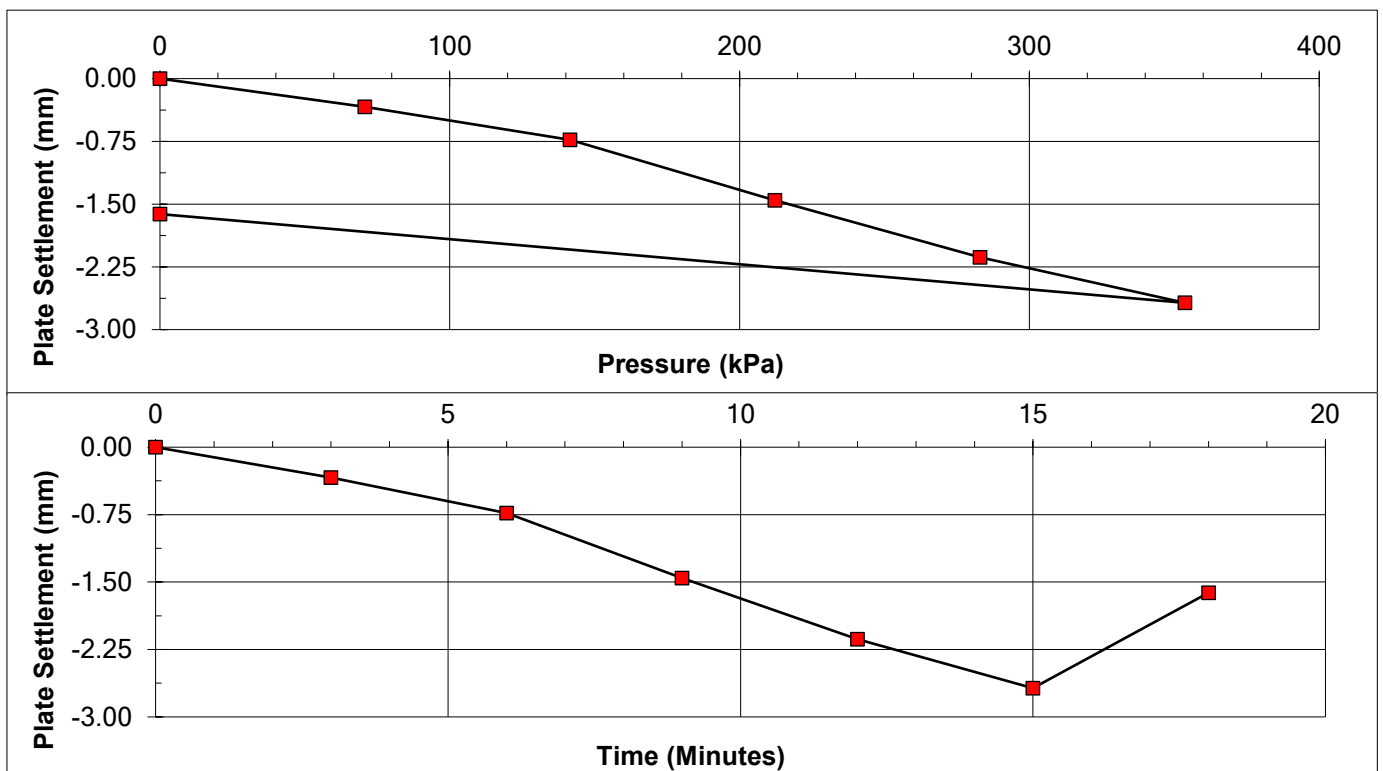
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/14		
TEST LOCATION	Plot 87/88	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	14-Mar-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
3523	2268	3173	2988	0.00	0.00	0.0
3492	2228	3143	2954	-0.34	5.00	70.7
3451	2192	3101	2915	-0.73	10.00	141.5
3365	2131	3031	2842	-1.46	15.00	212.2
3291	2061	2971	2774	-2.14	20.00	282.9
3221	2011	2928	2720	-2.68	25.00	353.7
3365	2095	3018	2826	-1.62	0.00	0.0



Pressure at 1.25 mm deflexion =	192 kPa
Modulus of subgrade reaction (k) =	154 MPa/m
Equivalent 762 mm plate reaction =	68 MPa/m
Equivalent CBR =	14.4 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 15-Mar-22

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



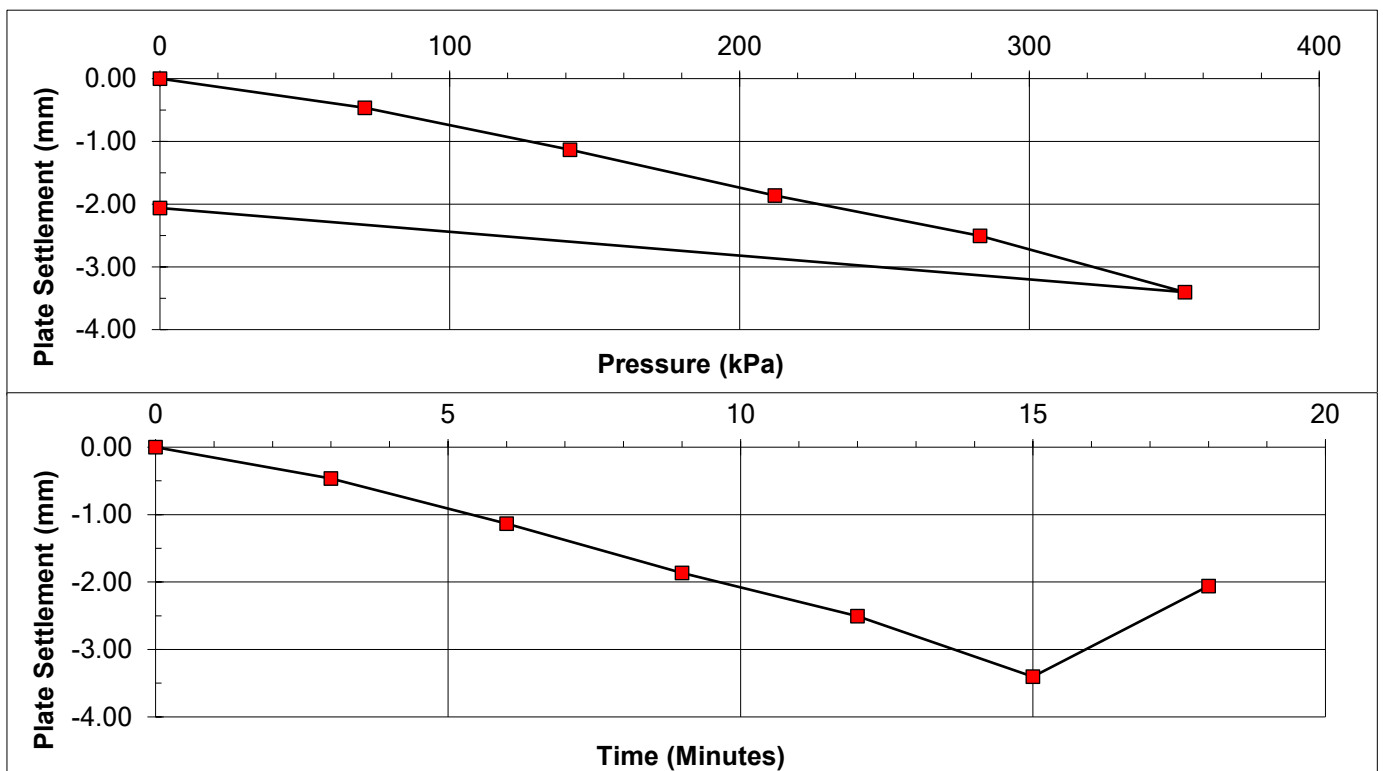
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd					
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA					
JOB NUMBER	MRN 4332/14					
TEST LOCATION	Plot 99	LOADING DEVICE		20 Tonne Enerpac Jack		
TEST DATE	14-Mar-22	PLATE SIZE (mm)		300 diameter		
TEST DEPTH	Surface	REACTION LOAD USED		Site Plant		
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT		Not Required		

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
2261	2523	2038	2274	0.00	0.00	0.0
2211	2481	1991	2228	-0.46	5.00	70.7
2158	2411	1913	2161	-1.13	10.00	141.5
2071	2341	1851	2088	-1.86	15.00	212.2
2013	2265	1792	2023	-2.51	20.00	282.9
1925	2211	1665	1934	-3.40	25.00	353.7
2045	2361	1798	2068	-2.06	0.00	0.0



Pressure at 1.25 mm deflexion =	153 kPa
Modulus of subgrade reaction (k) =	122 MPa/m
Equivalent 762 mm plate reaction =	54 MPa/m
Equivalent CBR =	9.7 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 15-Mar-22

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



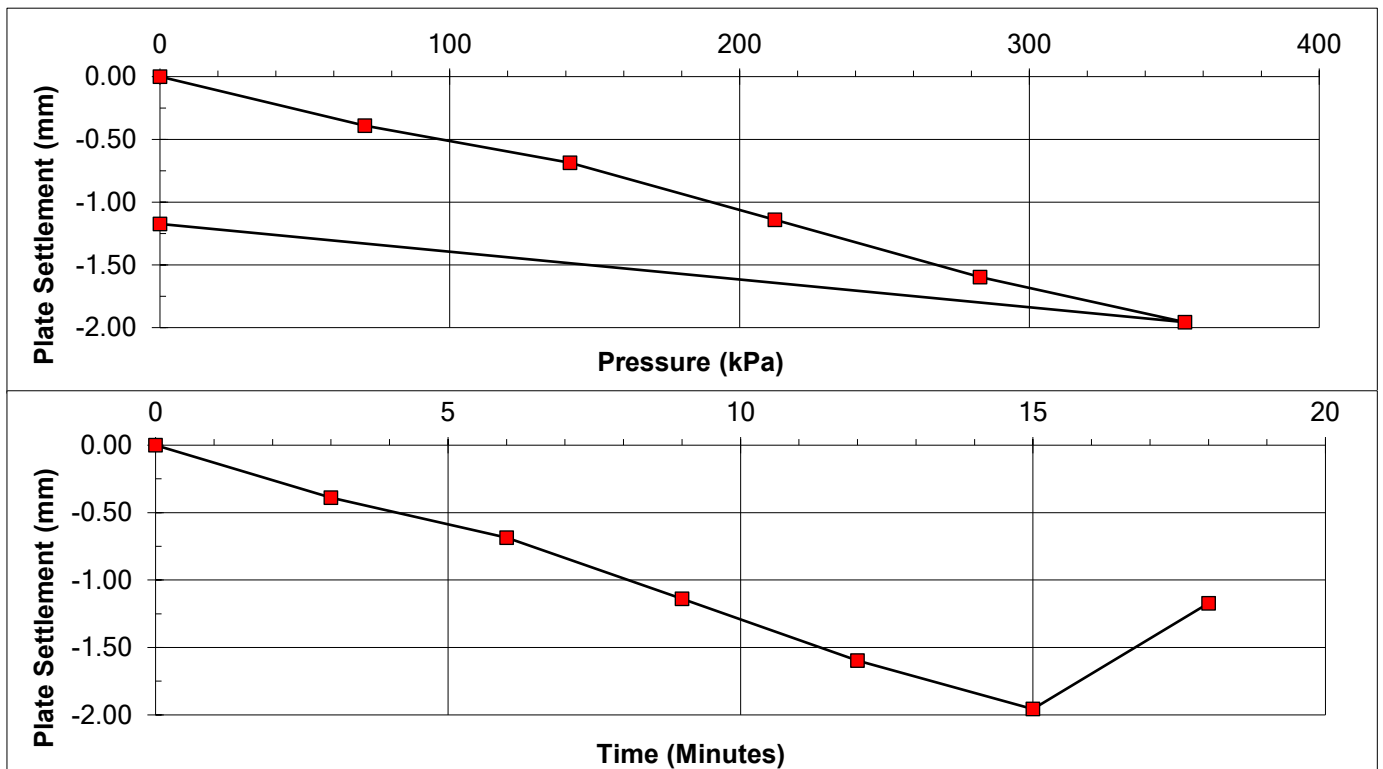
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/14		
TEST LOCATION	Road 2	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	14-Mar-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
2483	3138	3532	3051	0.00	0.00	0.0
2441	3092	3503	3012	-0.39	5.00	70.7
2412	3058	3477	2982	-0.69	10.00	141.5
2370	3016	3425	2937	-1.14	15.00	212.2
2311	2971	3392	2891	-1.60	20.00	282.9
2270	2938	3358	2855	-1.96	25.00	353.7
2365	3015	3421	2934	-1.17	0.00	0.0



Pressure at 1.25 mm deflexion = 229 kPa
Modulus of subgrade reaction (k) = 183 MPa/m
Equivalent 762 mm plate reaction = 81 MPa/m
Equivalent CBR = 19.6 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 15-Mar-22

TEST REPORT

Client Urban Regen Ltd

Address Langley Road
Pendlebury
Salford
M6 6FG

Contract Belle Vue, Kirkmanshulme Lane
Gorton, Manchester M18 7BA

Job Number MRN 4332/19
Date of Issue 29 March 2022
Pages 1 of 4

Approved Signatories

S J Hutchings, O P Davies

Notes

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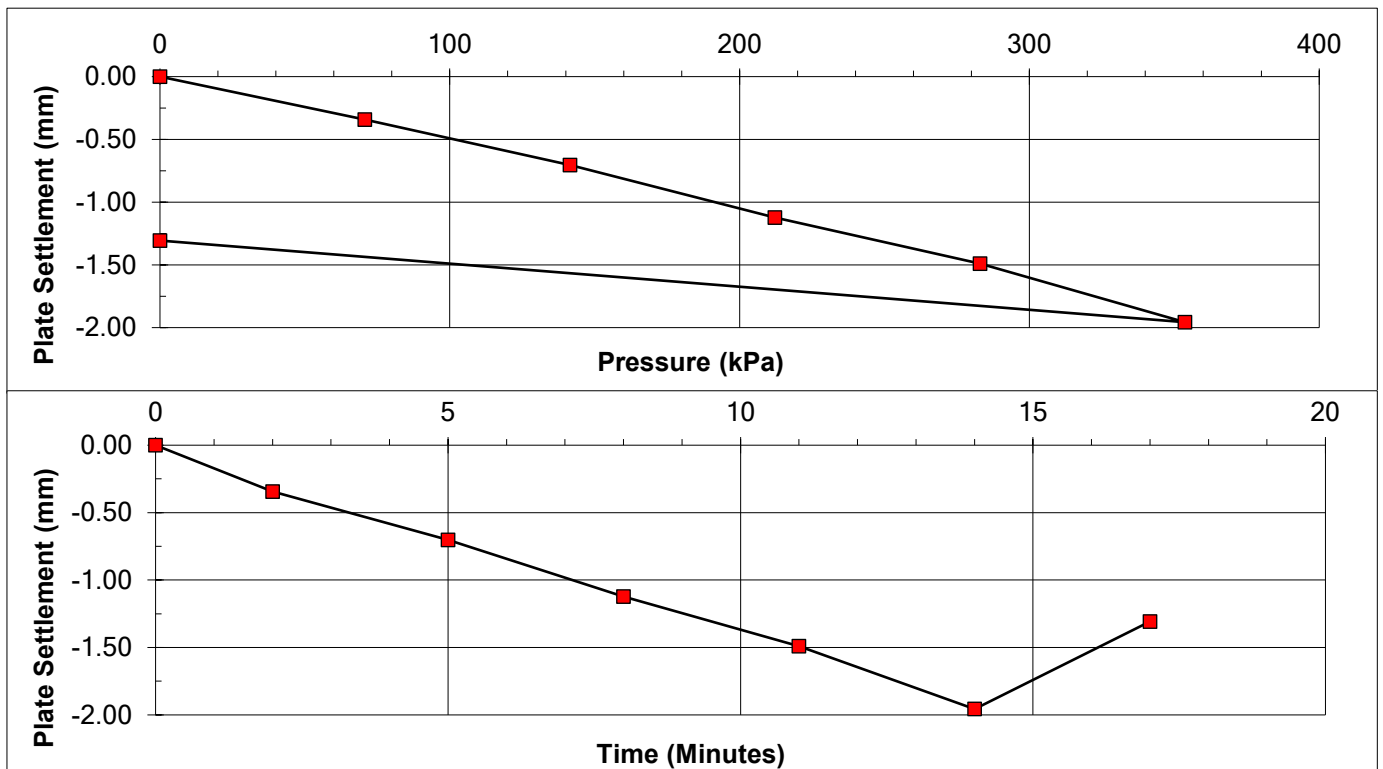
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/19		
TEST LOCATION	Test 01 - Plot 111	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	28-Mar-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
3603	4535	3183	3774	0.00	0.00	0.0
3568	4492	3158	3739	-0.34	5.00	70.7
3531	4456	3123	3703	-0.70	10.00	141.5
3492	4423	3069	3661	-1.12	15.00	212.2
3451	4392	3031	3625	-1.49	20.00	282.9
3411	4332	2991	3578	-1.96	25.00	353.7
3473	4413	3043	3643	-1.31	0.00	0.0



Pressure at 1.25 mm deflexion =	237 kPa
Modulus of subgrade reaction (k) =	189 MPa/m
Equivalent 762 mm plate reaction =	84 MPa/m
Equivalent CBR =	20.7 %

REMARKS

SIGNED

NAME S.J Hutchings
(Director)

DATE 29-Mar-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



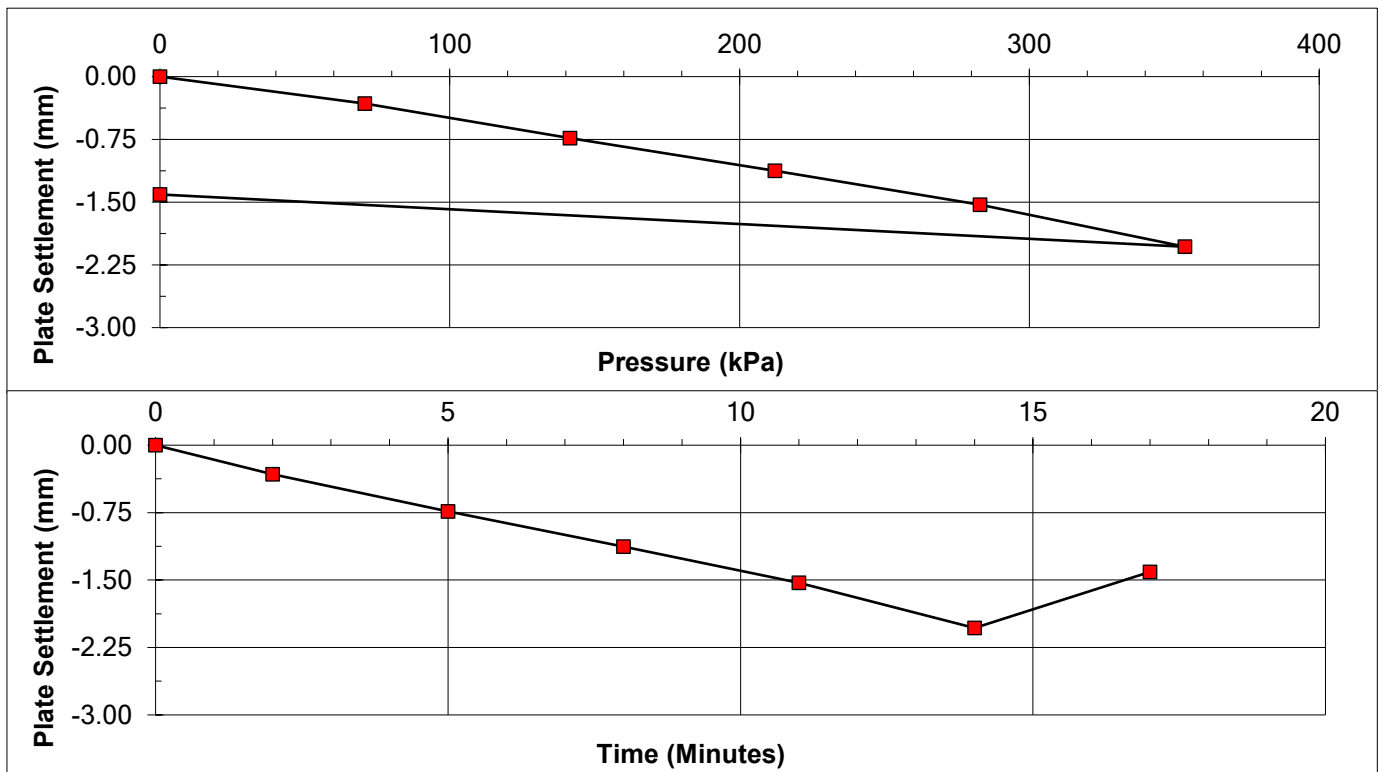
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/19		
TEST LOCATION	Test 02 - Plot 116	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	28-Mar-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
2593	3523	2673	2930	0.00	0.00	0.0
2569	3491	2632	2897	-0.32	5.00	70.7
2531	3450	2587	2856	-0.74	10.00	141.5
2480	3413	2558	2817	-1.13	15.00	212.2
2438	3381	2511	2777	-1.53	20.00	282.9
2389	3332	2458	2726	-2.03	25.00	353.7
2445	3405	2516	2789	-1.41	0.00	0.0



Pressure at 1.25 mm deflexion =	234 kPa
Modulus of subgrade reaction (k) =	187 MPa/m
Equivalent 762 mm plate reaction =	83 MPa/m
Equivalent CBR =	20.3 %

REMARKS

SIGNED

NAME S.J Hutchings
(Director)

DATE 29-Mar-22

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



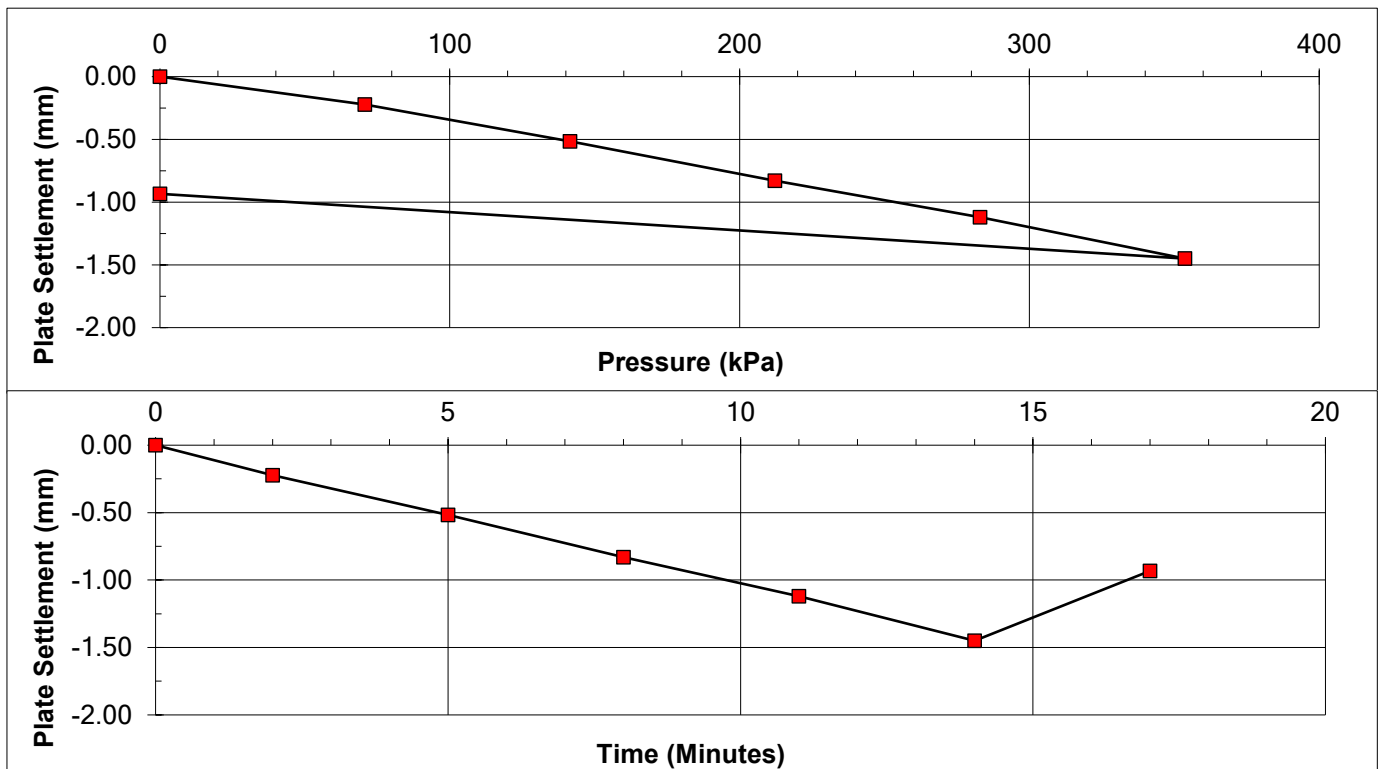
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/19		
TEST LOCATION	Test 03 - Road 1	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	28-Mar-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
2502	3143	3568	3071	0.00	0.00	0.0
2483	3128	3535	3049	-0.22	5.00	70.7
2461	3095	3502	3019	-0.52	10.00	141.5
2421	3062	3481	2988	-0.83	15.00	212.2
2392	3028	3457	2959	-1.12	20.00	282.9
2358	2992	3428	2926	-1.45	25.00	353.7
2412	3038	3483	2978	-0.93	0.00	0.0



Pressure at 1.25 mm deflexion =	311 kPa
Modulus of subgrade reaction (k) =	249 MPa/m
Equivalent 762 mm plate reaction =	110 MPa/m
Equivalent CBR =	33.2 %

REMARKS

SIGNED

NAME S.J Hutchings
(Director)

Page 4 of 4

DATE 29-Mar-22

TEST REPORT

Client Urban Regen Ltd

Address Langley Road
Pendlebury
Salford
M6 6FG

Contract Belle Vue, Kirkmanshulme Lane
Gorton, Manchester M18 7BA

Job Number MRN 4332/22

Date of Issue 12 April 2022

Pages 1 of 6

Approved Signatories

S J Hutchings, O P Davies

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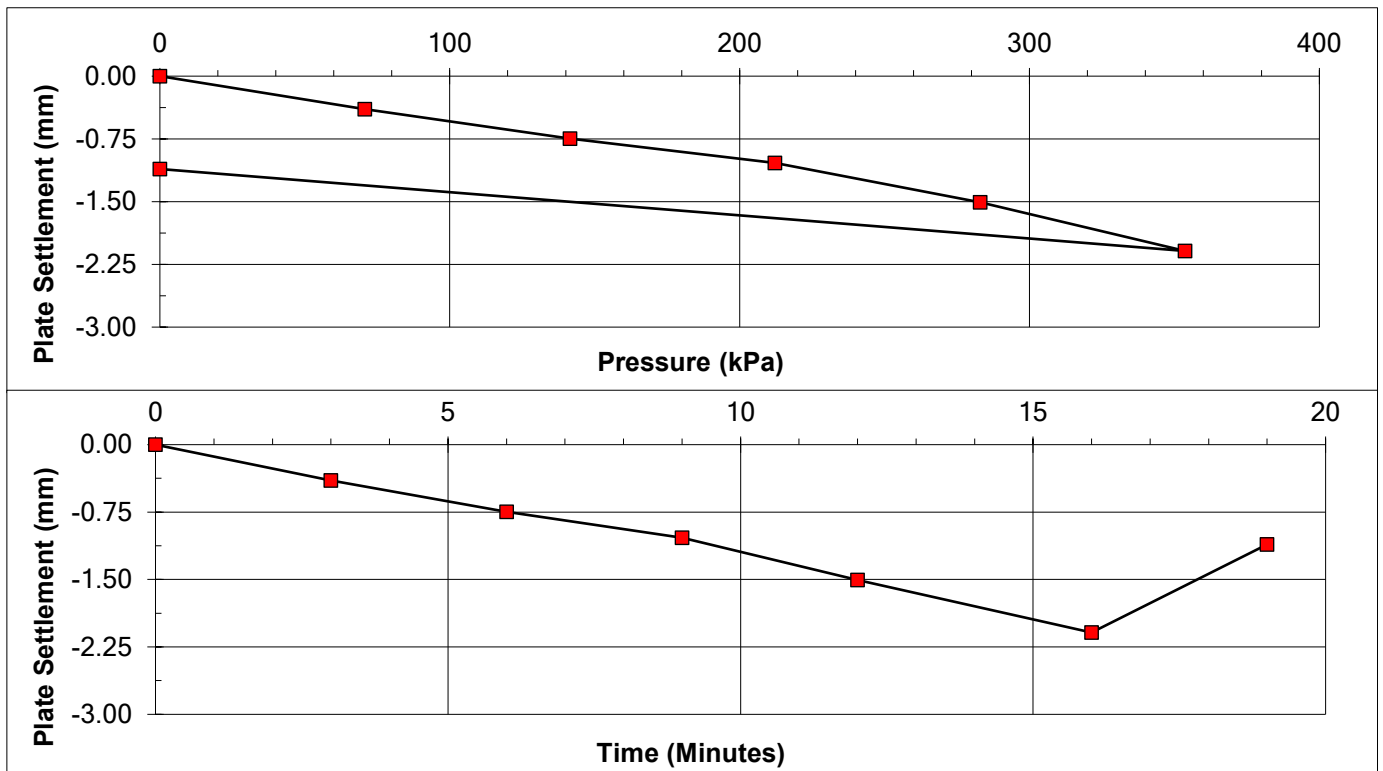
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd					
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA					
JOB NUMBER	MRN 4332/22					
TEST LOCATION	Test 01 - Road 1	LOADING DEVICE		20 Tonne Enerpac Jack		
TEST DATE	11-Apr-22	PLATE SIZE (mm)		300 diameter		
TEST DEPTH	Surface	REACTION LOAD USED		Site Plant		
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT		Not Required		

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
3477	2271	4572	3440	0.00	0.00	0.0
3445	2228	4528	3400	-0.40	5.00	70.7
3412	2192	4492	3365	-0.75	10.00	141.5
3380	2161	4468	3336	-1.04	15.00	212.2
3328	2128	4412	3289	-1.51	20.00	282.9
3261	2081	4351	3231	-2.09	25.00	353.7
3361	2161	4465	3329	-1.11	0.00	0.0



Pressure at 1.25 mm deflexion = 244 kPa
Modulus of subgrade reaction (k) = 195 MPa/m
Equivalent 762 mm plate reaction = 86 MPa/m
Equivalent CBR = 21.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 12-Apr-22

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



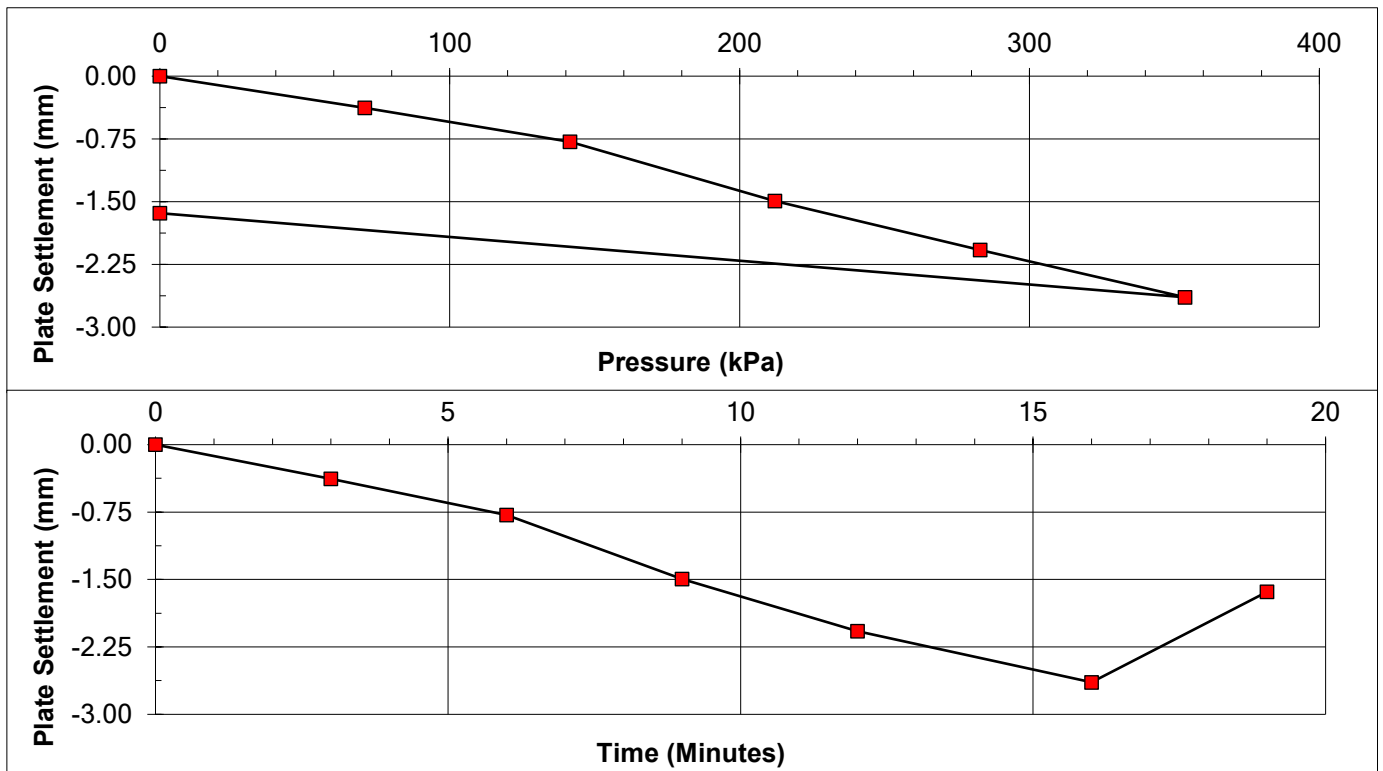
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/22		
TEST LOCATION	Test 02 - Plot 143	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	11-Apr-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
2541	3223	2132	2632	0.00	0.00	0.0
2510	3181	2091	2594	-0.38	5.00	70.7
2462	3141	2058	2554	-0.78	10.00	141.5
2391	3065	1992	2483	-1.49	15.00	212.2
2321	3031	1921	2424	-2.08	20.00	282.9
2258	2983	1862	2368	-2.64	25.00	353.7
2318	3095	1992	2468	-1.64	0.00	0.0



Pressure at 1.25 mm deflexion =	188 kPa
Modulus of subgrade reaction (k) =	150 MPa/m
Equivalent 762 mm plate reaction =	66 MPa/m
Equivalent CBR =	13.9 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 12-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



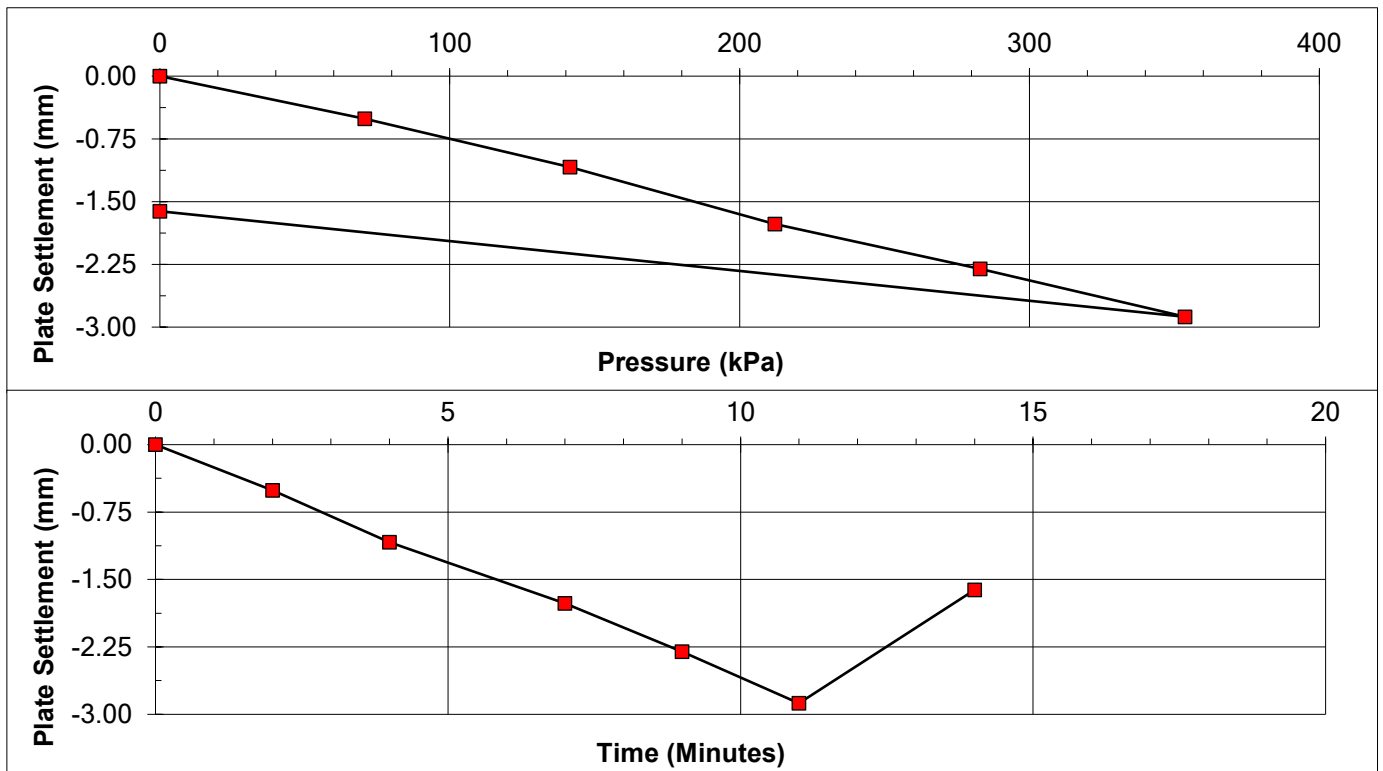
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/22		
TEST LOCATION	Test 03 - Plot 138	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	11-Apr-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
3435	4485	3115	3678	0.00	0.00	0.0
3381	4438	3063	3627	-0.51	5.00	70.7
3291	4390	3028	3570	-1.09	10.00	141.5
3251	4312	2942	3502	-1.77	15.00	212.2
3191	4261	2892	3448	-2.30	20.00	282.9
3131	4218	2823	3391	-2.88	25.00	353.7
3261	4341	2948	3517	-1.62	0.00	0.0



Pressure at 1.25 mm deflexion =	158 kPa
Modulus of subgrade reaction (k) =	127 MPa/m
Equivalent 762 mm plate reaction =	56 MPa/m
Equivalent CBR =	10.3 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 12-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



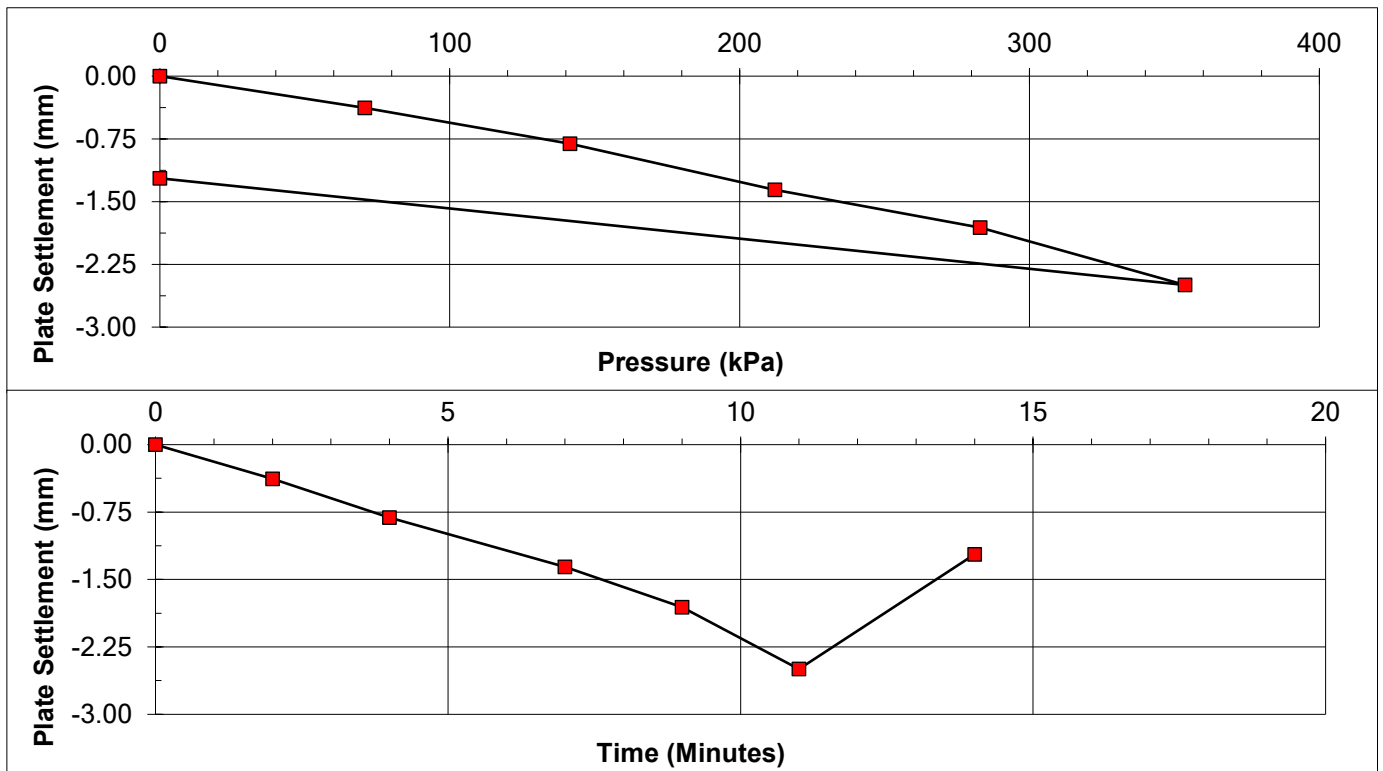
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/22		
TEST LOCATION	Test 04 - Plot 108	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	11-Apr-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
3173	3131	2572	2959	0.00	0.00	0.0
3142	3092	2528	2921	-0.38	5.00	70.7
3092	3058	2483	2878	-0.81	10.00	141.5
3031	2995	2442	2823	-1.36	15.00	212.2
2971	2951	2411	2778	-1.81	20.00	282.9
2903	2883	2341	2709	-2.50	25.00	353.7
3042	3003	2465	2837	-1.22	0.00	0.0



Pressure at 1.25 mm deflexion =	198 kPa
Modulus of subgrade reaction (k) =	158 MPa/m
Equivalent 762 mm plate reaction =	70 MPa/m
Equivalent CBR =	15.2 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 12-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
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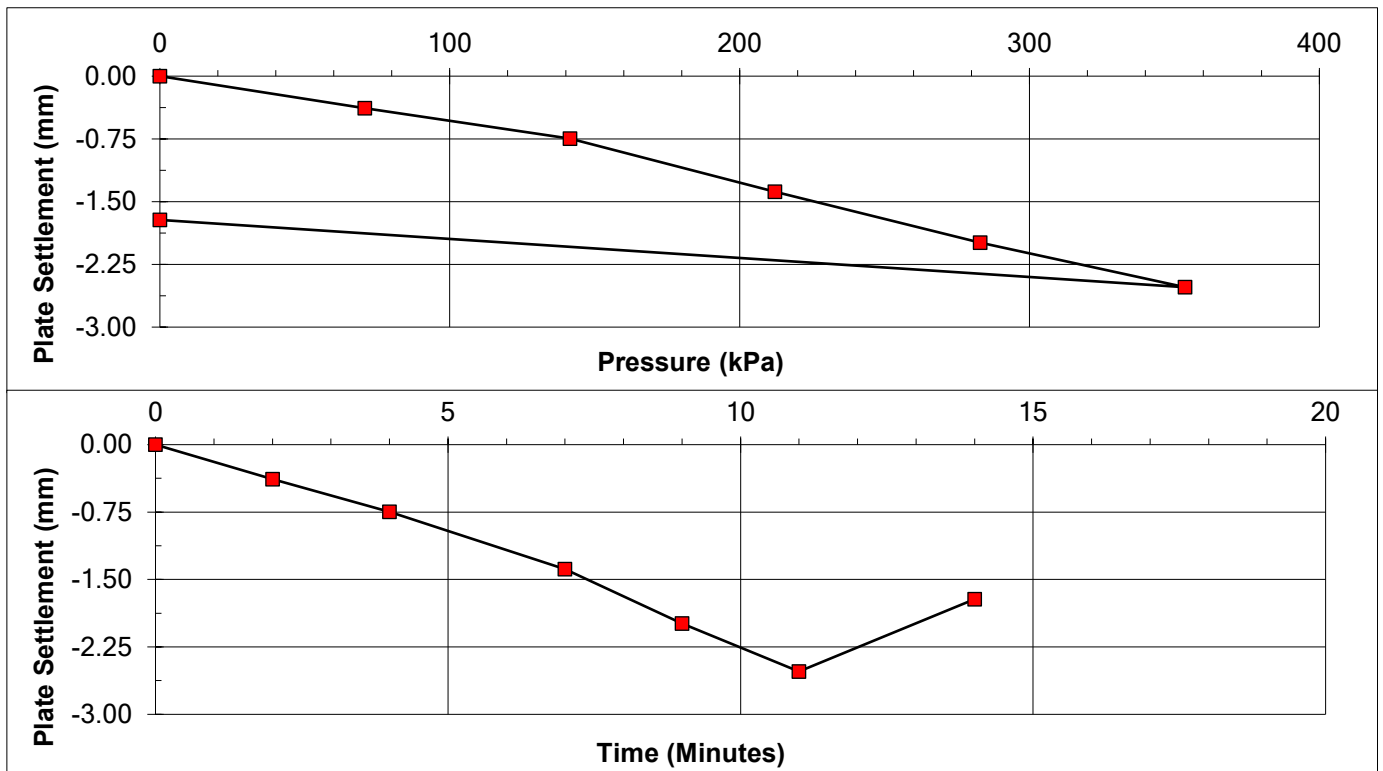
TEST CERTIFICATE

PLATE INCREMENTAL LOAD TEST

BS 1377 : PART 9 : CL 4.1 and IAN 73/06 Rev 1 (2009)

CLIENT	Urban Regen Ltd		
SITE	Belle Vue, Kirkmanshulme Lane, Gorton, Manchester M18 7BA		
JOB NUMBER	MRN 4332/22		
TEST LOCATION	Test 05 - Plot 124	LOADING DEVICE	20 Tonne Enerpac Jack
TEST DATE	11-Apr-22	PLATE SIZE (mm)	300 diameter
TEST DEPTH	Surface	REACTION LOAD USED	Site Plant
MATERIAL UNDER TEST	Crush	MOISTURE CONTENT	Not Required

Dial Gauge 1 (mmx100)	Dial Gauge 2 (mmx100)	Dial Gauge 3 (mmx100)	Mean Gauge (mmx100)	Mean Deflection (mm)	Load (kN)	Pressure (kPa)
2258	2545	3051	2618	0.00	0.00	0.0
2211	2510	3018	2580	-0.38	5.00	70.7
2178	2471	2981	2543	-0.75	10.00	141.5
2118	2403	2918	2480	-1.38	15.00	212.2
2058	2341	2858	2419	-1.99	20.00	282.9
2001	2285	2811	2366	-2.52	25.00	353.7
2092	2371	2875	2446	-1.72	0.00	0.0



Pressure at 1.25 mm deflexion =	197 kPa
Modulus of subgrade reaction (k) =	158 MPa/m
Equivalent 762 mm plate reaction =	70 MPa/m
Equivalent CBR =	15.1 %

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 12-Apr-22

APPENDIX VII CONTRACTOR COMPLETION CHECK SHEET

GEOTECHNICAL ENABLING WORKS COMPLETION FORM

Upon completion of all site remediation and enabling works, this form will be completed by E3P, in the presence of the appointed contractor, to ensure that all pertinent geotechnical enabling works activities are complete or, where a deviation from the specification has occurred, all future limitations and issues are documented for the client's records.

Activity	Complete			Signature
	Yes	No	N/A	(initial)
Eradication of all invasive plant species	x			
Removal of all vegetation	x			
Removal of all root bulbs and root networks	x			
Stockpiling of topsoil and certification of suitability for reuse			x	
Stockpiling of subsoil and certification of suitability for reuse			x	
Stockpile all recycled aggregate with geotechnical and chemical validation testing	x			
Removal of all relict foundations and infrastructure in their entirety	x			
Decommission of all redundant drainage infrastructure	x			
Decommission of all former interceptors			x	
Decommission of all former above- and below-ground tanks			x	
Removal of all waste materials to a licensed facility	x			
Removal of all asbestos to a licensed facility	x			
Engineering of all plots for shallow spread foundation in accordance with E3P Geotechnical Specification			x	
Engineering of all plots for VSC in accordance with E3P Geotechnical Specification	x			
Engineering of all plots for pile foundation in accordance with E3P Geotechnical Specification			x	
Engineering of all plots for raft foundation in accordance with E3P Geotechnical Specification			x	
Engineering of highways bulk upfill in accordance with E3P Specification with compliant validation testing	x			
Engineering of highways subgrade in accordance with E3P Specification with compliant validation testing	x			
Engineering of highways capping in accordance with E3P Specification with compliant validation testing	x			
Cut-and-fill the development site to client's required elevation with as-built survey	x			



POST-REMEDIATION AND ENABLING LIMITATIONS

All and every deviation from the approved specification for works should be documented by the remediation and enabling works contractor below.



APPENDIX VIII

KNOTWEED REPORT

Invasive Weed Excavation Report

Urban Regen
Belle Vue Stadium
Kirkmanshulme Lane
Manchester
M18 7DP

20th May 2022

Knotweed Eradication

New Inn Farm
Dawson Lane
Leyland,
PR25 5DB
TEL: 01772 621013

info@knotweederadication.co.uk
www.knotweederadication.co.uk



**KNOTWEED
ERADICATION**

Specialist Weed Control &
Site Vegetation Clearance



Date	20 th May 2022
Inspected by	G Parry
Checked by	S Lenthall
Authorised by	G Andrews
Project	Belle Vue Stadium, Manchester
Report number	IWMP2222A

LIMITATIONS

Knotweed Eradication has prepared this report with reasonable skill, care and diligence and taking account of the contract terms and conditions and manpower and resources devoted to it in agreement with the client. Knotweed Eradication disclaims any responsibility to the client and others in respect of any matters outside the scope of the above.

This report has been prepared based on the information received during the timescale available and all potential contamination; constraints or liabilities associated with the site may not necessarily have been revealed. The report is only valid when it is used in its entirety.

This report is confidential to the client and Knotweed Eradication accepts no responsibility to third parties to whom the report, or any part thereof, is made known. Any such party using any information contained within the report does so at their own risk.

Site Inspection at Belle Vue Stadium, Manchester for Urban Regen

As a division of Helmrig Ltd, Knotweed Eradication has been involved in the management and treatment of invasive weed species for over 18 years, utilising their knowledge and experience to provide clients with information and advice as to how best to deal with invasive weed issues on land within their ownership.

In November 2020 Knotweed Eradication was commissioned by Paul Johnson of Urban Regen to undertake an inspection of the commercial premises at Belle Vue Stadium, Kirkmanshulme Lane, Manchester.

The purpose of the inspection was to identify any invasive weed species that may be present within the boundary of the site or the immediate surrounding area in accordance with the Wildlife and Countryside Act 1981 (as amended), report the findings and propose a solution to any infestations found to be present.

The main species being inspected for are Japanese Knotweed, Giant Hogweed and Himalayan Balsam.

This report sets out the expected treatment of each species identified prior to, during and following completion of the development phase of the works.

Report Contents

1. Findings & Requirements
2. Legal Status
3. Possible Control Options
4. Site Map
5. Photographs

“The Complete Solution to Invasive Weed Control That Embraces the Legal and Statutory Requirements to Eradicate the Problems and Prevent Costly Prosecution”

1. Japanese Knotweed excavation validation report

- 1.1.** In November 2020 Knotweed Eradication was approached by Urban Regen regarding the possible treatment options of Japanese Knotweed within the proposed development site at the former greyhound racing track “Belle Vue” located on Kirkmanshulme Lane, Gorton, Manchester.
- 1.2.** The project started on the 27th November 2020 where Gary Andrews from Knotweed Eradication attended site with Paul Johnson to establish a plan and mark out effected areas. The inspection was carried outside of the expected growing season with nine areas of visible knotweed being identified within the site.
- 1.3.** Site consists of the sand greyhound and speedway / stock-car tracks and surrounding stadium that is comprised of a main brick building together with various out-buildings, a large concrete terraced area, large open gravel areas, large tarmac car parking areas and several areas of mature trees and vegetation.
- 1.4.** Surrounding areas comprise of open ground and commercial premises to the north and east, residential properties immediately beyond the southern boundary and sports facilities immediately to the west.
- 1.5.** Knotweed material was excavated under the supervision of Gwyn Parry from Knotweed Eradication with works starting on 27th July 2021. The contaminated material was removed carefully with continuous inspection for any Knotweed rhizome material being carried out.
- 1.6. Excavation 1.** Large banking area to rear of the concrete stand, along the eastern side of site, this also incorporates areas 6, 7, 8 and 9 as one excavation. This area was dug out up to 300mm below current ground level, but height was approximately 5-6m and a width of approximately 70m x 5m-10m. Any concrete near Japanese Knotweed-impacted soil was checked for any rhizome before being declared as clean crush material. Also, any tree roots near Japanese Knotweed rhizome were broken up and placed in burial cell No1, which measured 21m x 21m. This will be a POS area within the completed development. Burial cell No2 measured 56m x 14m and will be under a car park area of the completed development. Both cells were excavated to a depth of 4m to allow for 2m clean cover. The cells were lined and fully covered in CuTex Geomembrane root barrier following the manufacturer’s installation

guidelines. These were back-filled with 2m appropriate, clean material (containing no sharps) prior to finished landscaping / surfacing at the required time within the development schedule.

1.7. Excavation 2. Area 2 which is a small banking area along the western area of site. This area was excavated to a depth of approximately 2.5m and a length / width of approximately 33m x 3.5m respectively. All Japanese Knotweed-impacted soil from this area was taken off site via 8-wheeler wagons to a licensed landfill facility.

1.8. Excavation 3. Areas 1, 3 and 4 southern boundary of site. This area was excavated to a depth of approximately 1.3m and a width of approximately 40m x 2m and all Japanese Knotweed-impacted soil was taken off site by wagons to a licensed landfill facility. A satellite area of Japanese Knotweed near this area was also excavated at the same time. CuTex Geomembrane root barrier was installed along the boundary for approximately 40m and down to the depth of the clay. This area will receive regular monitoring during the development to ensure no ingress of Knotweed from the neighbouring residential property has occurred.

1.9. Excavation 4. Area 5. This area was fully excavated to a depth of approximately 1m and a length / width of approximately 7m x 3m respectively and taken off site by wagon to a licensed landfill facility.

1.10. Original Japanese Knotweed areas have been marked on the attached Site Map (included).

1.11. This report has been produced on the 20th May 2022 to form a written and photographic record of actions carried out to date.

1.12. During the late growing season of 2021 following the excavation works, a monitoring visit was carried out to monitor the areas. No visible Knotweed was found during this visit. Further monitoring visits will be carried out during the 2022 growing season to inspect for any remaining knotweed regrowth on site within the affected, excavated areas. The site will continue to receive monitoring visits as part of the requirements of the Insurance-Backed Guarantees that are in place for the relevant plots.

1.13. Please accept this document as an accurate record of the process that has been carried out on site regarding dealing with the Japanese Knotweed.

Gary Andrews
Commercial Director
Knotweed Eradication

2. Legal Status

2.1. Material and soils containing Japanese Knotweed are deemed contaminated and its treatment is controlled by legislation. In legal terms it is an offence under the Wildlife and Countryside Act 1981(as amended) to plant or otherwise cause the plant to grow in the wild. An offence under this Act may result in criminal prosecution. In addition, under Section 34 of the Environmental Protection Act (1990), Japanese knotweed (stem and root and soil containing roots) is classed as ‘controlled waste’ and as such must be disposed of safely at a licensed landfill site according to the Environmental Protection Act (Duty of Care) Regulations 1991. Infringement can result in the Environment Agency taking enforcement action, which may result in an unlimited fine.

2.2. The Rio Summit 1992, Convention on Biological Diversity, Article 8(h) calls on participating nations to ‘prevent the introduction of, (to) control, or (to) eradicate those alien species which threaten ecosystems, habitats or species’.

2.3. Effective removal or control can be carried out by a competent contractor following good procedures and guidelines to contain the plant and prevent careless spreading during removal and disposal. On site burial of knotweed material whether stem parts or soil containing rhizomes may require a Waste Management Licence under the Waste Management Licensing Regulations 1994 and the Landfill Regulations 2002 depending on the engineering operations of on site work. Exemptions may be available as set out in Schedule 3 of the Regulations and will require registration with the Environment Agency. Disposal off site to landfill will require a Waste Transfer Certificate. Advice should be sought from the Environment Agency who have provided The Knotweed Code of Practice (2006) and who also issue appropriate licences/certificates for waste control. Treatment of knotweed by herbicide within 10 metres of a watercourse will require approval from the Environment Agency for the use of herbicide applied in or near a watercourse. An approved herbicide for such use must be specified and used.

2.4. Third parties may also be held liable for costs incurred from the spread of Japanese knotweed across adjacent landowner’s property or by re-using infested soil.

2.5. Other legislation relevant to the control of non-native invasive weeds includes the following.

- Town and Country Planning Act 1990.
- Highways Act 1980.
- Water Resources Act 1991.
- The Waste Management and Licensing Regulations 1994.
- The Landfill (England and Wales) Regulations 2002.
- The Control of Pesticides Regulations 1986 (under the Food and Environment Protection Act 1985).
- The Control of Substances Hazardous to Health Regulations 2002 (COSHH)

3. Possible Control Options

3.1 Control of Japanese knotweed is usually carried out by manual or chemical methods or a combination of both. Herbicide treatment is labour intensive and there is no 'quick fix' effective herbicide as they may have to be continued for a number of years before effective total control is achieved. The 'dig and dump' approach is generally very effective but is not a sustainable approach and can incur high costs when disposing of plant or soil contaminated with Japanese knotweed rhizomes if taken to a licensed landfill site in accordance with current guidelines. In some instances it is impractical to use machinery for excavation such as where knotweed is located within the root zone of trees. Similarly access and feasible use of machines may be impossible due to ground conditions or severe slopes. Control of the knotweed and the prevention of its spread by herbicide treatment on 'dormant' sites are essential where future excavation and disposal to landfill in the longer term is considered a possibility. Whatever control method is used, the effective eradication of the plant's rhizome system is essential if lasting control of Japanese knotweed is to be achieved.

3.2 Options

Chemical and Manual Control

Chemical treatment of the plant is the most commonly used method followed by a pulling and/or cutting and mowing regime. However, it may take several years, depending on the herbicide used and frequency of the seasonal treatments, to fully eradicate the plant even with treatment carried out every year to the re-growth of the plant. However, certain herbicide treatment, which is carried out persistently over the season to any new emerging shoots using translocated total and residual herbicides, have given good results in a 3 year period.

Where development footprints of buildings, car parks, paths and drives do not conflict with areas of knotweed it should be possible to leave the plant in situ in order that it can be treated over time by herbicide application. Care must be taken that access to the stands for spraying will be possible and that it will not limit the planting of new landscapes which could be affected by the herbicide spraying.

Excavation

Where situations require a much more rapid treatment of control in order for the site to be developed in the short term it is recommended that a programme of cutting and burning of the top growth and deep and extensive digging to remove the rhizomes is carried out. Removal of excavated material is often to landfill sites but the material can be stocked piled in controlled areas elsewhere if space is available on site for future herbicide treatment. Alternatively, it can be spread in areas of proposed public soft landscaping, again for in situ herbicide treatment. A rigorous management regime needs to be put in place if this approach is to be successful.

Combined Treatment

Where sufficient space exists on site a combined treatment can be used which in many instances has proved to be very effective. The method involves the spraying of the plant with a non-selective herbicide followed by removal and stockpiling of the top 300mm of soil containing the knotweed 'crowns' and majority of rhizomes. The exposed ground is then cultivated to a depth of 500mm and the excavated material re-spread over the cultivated area. This process stimulates the rhizomes to produce a higher ratio of stem ratio to below ground rhizomes, which renders the plant more vulnerable to herbicide treatment. Subsequent herbicide treatment has, in some instances, been observed to eradicate the knotweed after two herbicide applications, which may be performed within the same growing season. If work commences late in the season when the plant is dying back for its dormant period, digging can be carried out during the winter months without an initial pre-treatment with herbicide, and re-growth treated during the spring and summer. However, this is dependant on the timing of operations and offers no outright guarantees of total eradication in a single year.

Root Barriers

Where treatment of any kind is not feasible, particularly where Japanese knotweed is located off site in the ownership of others but adjacent to development areas, the use of polyethylene root barriers can be effective. These can be purchased as proprietary products and inserted into narrow trenches along boundaries or foundation lines to prevent knotweed rhizomes growing in a specific direction. The use of concrete as a barrier can also prove extremely effective providing care is taken where any joints occur.

4. Site Map



- Site Boundary
- Rhizome Buffer Zone
- JK Within site
- JK Beyond site
- JK Beyond site not to be treated
- Himalayan Balsam
- Giant Hogweed
- Other as identified within report



New Inn Farm, Dawson Lane, Leyland PR25 5DB
www.knotweederadication.co.uk
info@knotweederadication.co.uk

Date: 20th May 2022
 Client: Urban Regen
 Project Ref: IWMP2222B
 Site: Belle Vue Stadium
 Scale: NTS

5. Photographs of Excavation



Photo 1: Japanese Knotweed area 1



Photo 2: Japanese Knotweed area 1 moved to Area Three-Four



Photo 3: Japanese Knotweed area 2 before



Photo 4: Japanese Knotweed area 2 before



Photo 5: Japanese Knotweed area 2 loaded onto wagon



Photo 6: Japanese Knotweed area 2 complete



Photo 7: Japanese Knotweed area 3-4 before



Photo 8: Japanese Knotweed area 3-4 before



Photo 9: Japanese Knotweed area 3-4 before cutex



Photo 10: Japanese Knotweed area 3-4 with cutex before backfilling



Photo 11: Japanese Knotweed area 3-4 with CuTex complete



Photo 12: Japanese Knotweed area 3-4 after



Photo 13: Japanese Knotweed area 3-4 complete inc. satellite area



Photo 14: Satellite JK within area 4 before



Photo 15: Satellite Japanese Knotweed within area 4 after



Photo 16: Japanese Knotweed area 5 before



Photo 17: Japanese Knotweed area 5 before



Photo 18: Japanese Knotweed area 5 after



Photo 19: Japanese Knotweed area 5 after



Photo 20: Japanese Knotweed banking before excavation



Photo 21: Japanese Knotweed banking before excavating



Photo 22: Banking area complete



Photo 23: Banking area complete



Photo 24: Burial cell 1 before



Photo 25: Burial cell 1 with cutex along edges



Photo 26: Burial cell No1 before backfilling



Photo 27: Burial cell No1 being backfilled with clean material



Photo 28: Burial cell No1 fully covered with clean material



Photo 29: Burial cell 1 before being covered in cutex



Photo 30: Burial cell No1 covered in cutex



Photo 31: Burial cell 2 with cutex lining being done



Photo 32: Burial cell 2 filled with JK impacted soil ready for top covering of cutex



Photo 33: Banking area complete



Photo 34: Banking area complete



Photo 35: Concrete pile after checking for JK



Photo 36: Farthest edge of banking area complete

References

Renals, T. and Rene, P. (May 2001) *Code of Practice for the Management, Destruction and Disposal of Japanese knotweed, Version 1.*
The Environment Agency.

Available to download: www.environment-agency.gov.uk

Child, L. and Wade, M. (2000) *The Japanese knotweed Manual*
Packard Publishing Limited, Chichester.

Web Sites

Nature Conservation
www.nationaltrust.org.uk/environment/htm/nat_con/_fspapers/fs_plant01

Japanese Knotweed Control Forum
www.ex.ac.uk/knotweed

PCA
www.property-care.org

APPENDIX IX ASBESTOS REMOVAL REPORT



CERTIFICATE OF REOCCUPATION

No. COR / 1 / 9005



Customer Details:

JOHN ADERSONS
ROUSEN

Job Number: 23736

Date Completed: 090621

Site Address:

BEULUE VUE STADIUM
MANCHESTER

Name of Contractor: JOHN ADERSONS
Contractors Representative: D RAIMOND

Address:

AS ABOVE

Location of Enclosure: KITCHEN TOILETS

Brief description of areas to be assessed / Work carried out & dates work undertaken:

REMOVAL OF AIR CELLING

Method Statement Checked ☒ Y / ☐ N Ref: SITE FILE

ASB 5 Checked ☒ Y / ☐ N

Anticipated Start of the Assessment

Date: 090621

Time: AM

Confirmed Start of the Assessment

Date: 090621

Time: 0804

Stage 1 - Preliminary Assessment

*DELETE AS APPLICABLE

Comments*

Plan of work defines entire work area?

Yes / No

Are warning signs present?

Yes / No

Are viewing panels adequate and present?

Yes / No

Is adequate lighting present within enclosure?

Yes / No

Are there any potential hazards noted in enclosure?

Yes / No

Removal of specified asbestos completed according to contractor information?

Yes / No

Transit route clean & skip area tidy?

Yes / No

Waste route/storage area clean?

Yes / No

Hygiene facilities intact and operable, clean and free from asbestos waste?

Yes / No

Enclosure & associated systems intact and operable?

Yes / No

Work area visually dry, clean and free from debris after inspection from viewing panel?

Yes / No

Is generic risk assessment adequate?

Yes / No

If No has a site specific RA been carried out?

Yes / No

STAGE 1 PASS / FAIL

DATE: 090621

START TIME: 0804

END TIME: 0830

AGREED BY CONTRACTOR

Assessed by [Signature] Signature of Assessor [Signature]

Detail any MINOR additional works which are required as detailed in the above observations following a fail at Stage 1:

Has additional work been carried out satisfactorily? NA Yes / No

STAGE 1 PASS / FAIL

DATE:

TIME:

AGREED BY CONTRACTOR:

Assessed by Signature of Assessor

Test Methods are in accordance with current HSG248, CAR 2012 and HSE Guidance notes and the procedures laid down in ASM Limited Quality Manual "opinions and interpretations expressed herein are outside the Scope of UKAS accreditation."

Suite 3, New Media Centre, 36-42 New Tythe Street, Long Eaton, Nottingham. Tel: 0115 946 2688 Fax: 0115 946 2689

CERTIFICATE OF REOCCUPATION

No. COR / 2 / 9005

2544

Customer Details:

JOHN ALDERSON
RUDSEY

Job Number:

23736

Date Completed:

090621

Stage 2 - Visual inspection

*DELETE AS APPLICABLE

Comments*

Airlocks/Baglocks & Enclosure clean and free from debris and unnecessary equipment?

Yes / No

Enclosure clean, dry and free from debris/dust and waste?

Yes / No

Evidence of lock down sprays?

Yes / No

Original floor surface uncovered?

Yes / No

Enclosure & associated systems intact?

Yes / No

All specified asbestos materials removed or encapsulated as plan of works?

Yes / No

Are there any friable dust surfaces/traps?

Yes / No

Has the visual been restricted in any way?

Yes / No

Specify any remaining asbestos within enclosure and immediate area?

Yes / No

Has additional cleaning been necessary? (If yes detail discussions and problems encountered in comments section)

Yes / No

ALL SURFACES ARE SHEETED
OUT WITH POLYTHENENO ACCESS INTO WALL VOIDS
FOR INSPECTIONALL ADJOINING TIMBER HAS
BEEN REMOVED

Time taken to carry out Stage 2 58 mins

STAGE 2 PASS / FAIL

DATE:

090621

START TIME:

0830

END TIME:

0924

Assessed by

Signature of Assessor

Stage 3 - Air Monitoring

NPU off and sealed?

Yes / No

Sampling and fibre counting procedures are those described by the HSE document HSG 248

See Air Monitoring Report Results Sheet Number AMR 15550

STAGE 3 PASS / FAIL

DATE:

090621

TIME:

1107

Assessed by

Signature of Assessor

Customer Details:

JOHN ANDERSONS
PURSEY

Job Number: 23736

Date Completed: 090621

Stage 4 - Site Assessment after enclosure has been removed**DELETE AS APPLICABLE*Is the work area free from asbestos dust/debris and waste? Yes / No ☒ YesHas the enclosure been removed satisfactorily? Yes / No ☒ YesIs the transit route free from dust and debris? Yes / No ☒ Yes

All ACMs in the Scope of Work have been removed and any AMCs remaining are intact and sealed/labelled

Has any additional asbestos been disturbed during the dismantling of enclosure? Yes / No ☒ NoIf yes has any additional air monitoring been undertaken (AMR number reference: AMR)? Yes / No ☒ NoSTAGE 4 **PASS / FAIL**

DATE: 090621 TIME: 1400

Assessed by [redacted] Signature of Assessor [redacted]

Comments*

This area CAN / CANNOT be returned for normal occupation

Copies of the Certificate (reference numbers COR/1/.....9005, COR/2/.....9005, COR/3/.....9005)

and attachments:

AMR 15550 ASD 15400 DAMR HUIC

Have been issued to the following people: D RAIMOND

Signed: Analyst [redacted]

Printed: Analyst [redacted]

Signed: Contractor Representative [redacted]

Printed: Contractor Representative [redacted]

Date: 090621 Time: 1400

AIRBORNE FIBRE SAMPLING ENCLOSURE / VISUAL INSPECTION PLAN



2544

asm

Certificate No. AMR / 15550

Job Number: 73736
 Customer: JOHN HUGHESONS
 Address: NICHOLSON LANE
 Phone / Fax: 1574 66N
 Requested by: 484 ANG AMMON
 Reason for Test: 484 ANG AMMON

Site Address: BRUC VUE STADIUM
 MANCHESTER
 M18 7BA

Location of Works: KITCHEN TRUETS + SPORTS BAR EXTENSION
 Site / Lab Suitability: SATISFACTORY

Kit No. S
 Microscope No. 5
 Flowmeter No. 504
 W/B Graticule area mm² 0.00485
 HSE/NPL Test Slide No. 6572
 Stage Micrometer No. 15905
 Visible Test Slide Band 5
 Thermometer ID & reading °C 700 10
 Barometer ID & reading mbar 1000 1015
 Location of Analysis LAB / SITE

Test No.	Test Type	Pump	Head	Start Litres	Time On	Flow and Time check			Time Off	Finish Litres	Average Flow	Total Time (mins)	Total Volume	Fibres	Fields	No. Rejected Fields	Fibre Concentration (fibre / ml)	Reported Result (fibre / ml)
5887	C	31	1	8.0	0928	1	2	3	1028	8.0	8.0	60	480	4	200	0	0.007	0.01
5883	C	34	2	8.0	0928	1	2	3	1028	8.0	8.0	60	480	4.5	200	0	0.007	0.01
5884	C	35	3	8.0	1022	1	2	3	1122	8.0	8.0	60	480	4	200	0	0.007	0.01
5885	C	36	4	8.0	1022	1	2	3	1122	8.0	8.0	60	480	4	200	0	0.007	0.01
5886	AB																	

Type of Test*: L = Leak R = Reassurance C = Clearance P = Personal B = Background

Clearance Test: These are carried out inside the enclosure. All areas are clean and dry with the results of all tests falling below 0.015 fibres per ml and 80% of all results less than 0.010 fibres per ml when all surfaces have been disturbed.
Test Method: In accordance with current HSG 248, CAR 2012, HSE guidance and the procedures laid down in the Asbestos Survey and Management Limited Quality Manual. For a volume of 480 litres of air sampled, two hundred Graticule areas will have to be examined to achieve the limit of detection of 0.010 f/ml.
"Opinions and Interpretations are outside the scope of UKAS Accreditation"

Sampling carried out by: [Redacted] Signed: [Redacted] Date: 09/06/11
 Analysis carried out by: [Redacted] Signed: [Redacted] Date: 09/06/11

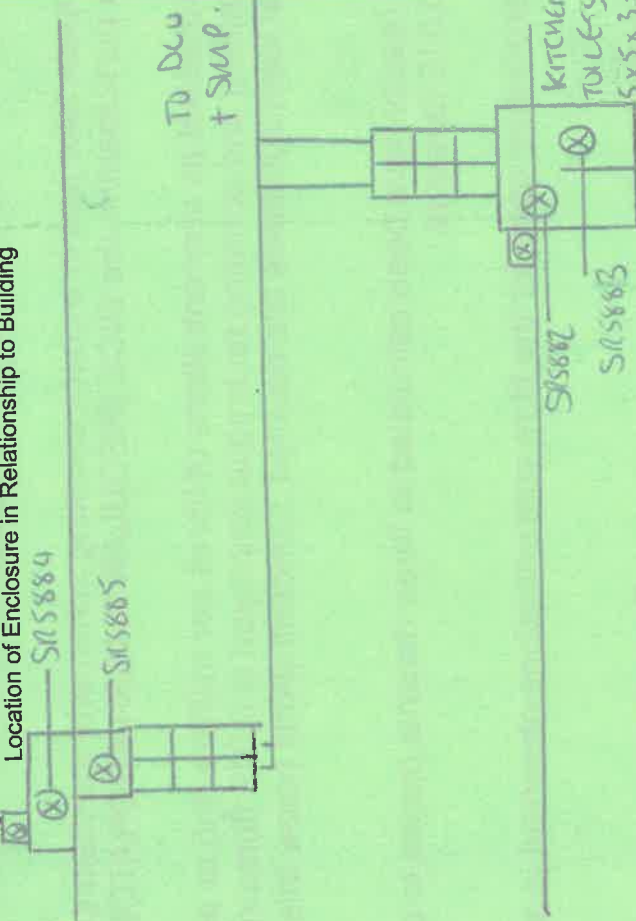
Job Number: 23736

Customer: JOHN ANDERSONS, LOOSEY

Site: BLUE VUE STADIUM, MANCHESTER

Enclosure Diagram:

SPORTS BAR
4 x 4 x 3
= 48 m³

Site Diagram: Detail location of Skip / DCU / Transit Route &
Location of Enclosure in Relationship to BuildingEnclosure Size =
L x W x H (metres)

See Diagrams x =

m.sq	m.cub	No. of Samples
N/A	<10	1
<50	150	2
100	300	3
200	600	4
500	1500	6
1000	3000	9
5000	15000	16
10000	30000	20

Number of Samples Required

2 + 2

Visual Inspection: Summarise Inspection Findings

ANGLES ARE FREE FROM VISIBLE SIGNS OF AIR DUST + DUSTS

Dust Disturbance: State Type of Disturbance & Time Taken

1'S WINDS PER SAMPLE USING GANTRY

Signed: Analyst:

Contractor

Date:

090621

asm**CERTIFICATE OF REOCCUPATION****No. COR / 1 / 9006****Customer Details:**JOHN ANDERSON'S
PODSUM

Job Number: 23736

Date Completed: 090621

Site Address:BELLE Vue STADIUM
MANCHESTER

Name of Contractor: JOHN ANDERSON'S

Contractors Representative:

Address:

B. RAYMOND
AS ABOVE.

Location of Enclosure: SPORTS BAR ENTRANCE

Brief description of areas to be assessed / Work carried out & dates work undertaken:

REMOVAL OF AIR CLADDING

Method Statement Checked Y/N Ref: SITE LINE ASB 5 Checked Y/N

Anticipated Start of the Assessment

Date:

090621

Time:

Am

Confirmed Start of the Assessment

Date:

090621

Time:

0800

Stage 1 - Preliminary Assessment***DELETE AS APPLICABLE****Comments***

Plan of work defines entire work area?

Yes / No

Are warning signs present?

Yes / No

Are viewing panels adequate and present?

Yes / No

Is adequate lighting present within enclosure?

Yes / No

Are there any potential hazards noted in enclosure?

Yes / No

Removal of specified asbestos completed according to contractor information?

Yes / No

Transit route clean & skip area tidy?

Yes / No

Waste route/storage area clean?

Yes / No

Hygiene facilities intact and operable, clean and free from asbestos waste?

Yes / No

Enclosure & associated systems intact and operable?

Yes / No

Work area visually dry, clean and free from debris after inspection from viewing panel?

Yes / No

Is generic risk assessment adequate?

Yes / No

If No has a site specific RA been carried out?

Yes / No

STAGE 1 PASS / FAIL**DATE:** 090621**START TIME:** 0800**END TIME:** 0837**AGREED BY CONTRACTOR**

Assessed by .. Signature of Assessor ..

Detail any MINOR additional works which are required as detailed observations following a fail at Stage 1:

Has additional work been carried out satisfactorily?

Yes / No

STAGE 1 PASS / FAIL**DATE:****TIME:****AGREED BY CONTRACTOR:**

Assessed by .. Signature of Assessor ..

Test Methods are in accordance with current HSG248, CAR 2012 and HSE Guidance notes and the procedures laid down in ASM Limited Quality Manual "opinions and interpretations expressed herein are outside the Scope of UKAS accreditation."

Suite 3, New Media Centre, 36-42 New Tythe Street, Long Eaton, Nottingham. Tel: 0115 946 2688 Fax: 0115 946 2689

Customer Details:

JOHN ALDERSON
RUDSEY

Job Number: 23736

Date Completed: 090621

Stage 2 - Visual inspection

*DELETE AS APPLICABLE

Comments*

Airlocks/Baglocks & Enclosure clean and free from debris and unnecessary equipment?

Yes / No

Enclosure clean, dry and free from debris/dust and waste?

Yes / No

Evidence of lock down sprays?

Yes / No

Original floor surface uncovered?

Yes / No

Enclosure & associated systems intact?

Yes / No

All specified asbestos materials removed or encapsulated as plan of works?

Yes / No

Are there any friable dust surfaces/traps?

Yes / No

Has the visual been restricted in any way?

Yes / No

Specify any remaining asbestos within enclosure and immediate area?

Yes / No

Has additional cleaning been necessary?
(If yes detail discussions and problems encountered in comments section)

Yes / No

ALL SURFACES ARE SWEPT
OUT WITH POUFTHERNE.NO ACCESS INTO WALL VOIDS
FOR INSPECTIONALL ADJOINING TIMBER HAS
BEEN REMOVED.

Time taken to carry out Stage 2 34 mins

STAGE 2 PASS / FAIL

DATE: 090621

START TIME: 0948
END TIME: 1027

Assessed by

Signature of Assessor

Stage 3 - Air Monitoring

NPU off and sealed?

Yes / No

Sampling and fibre counting procedures are those described by the HSE document HSG 248

See Air Monitoring Report Results Sheet Number AMR 15550

STAGE 3 PASS / FAIL

DATE: 090621

TIME: 1709

Assessed by

Signature of Assessor



CERTIFICATE OF REOCCUPATION

No. COR / 3 / 9006



Customer Details:

JOHN ALDERSON
POUSEY

Job Number: 23736

Date Completed: 090621

Stage 4 - Site Assessment after enclosure has been removed

*DELETE AS APPLICABLE

Is the work area free from asbestos dust/debris and waste? Yes / No

Has the enclosure been removed satisfactorily? Yes / No

Is the transit route free from dust and debris? Yes / No

All ACMs in the Scope of Work have been removed and any AMC remaining are intact and sealed/labelled

Has any additional asbestos been disturbed during the dismantling of enclosure? Yes / No

If yes has any additional air monitoring been undertaken (AMR number reference: AMR)

Comments*

STAGE 4 PASS / FAIL

DATE: 090621 TIME: 1400

Assessed by

Signature of Assessor

This area CAN / CANNOT be returned for normal occupation

Copies of the Certificate (reference numbers COR/1/....., COR/2/....., COR/3/.....)

and attachments:

AMR ASD DAMR HUIC

Have been issued to the following people

Signed: Analyst

Printed: Analyst

Signed: Contractor Representative

Printed: Contractor Representative

Date: 090621 Time: 1400

Job Number:	23820	Site Address:	Kellovue Station
Customer:	Motorcar 8 Yrs		
Address:	Unit 1 Boundary Rd State Edmond Okla 73034		
Phone / Fax:			
Requested by:		Location of Works:	Engine room
Reason for Test:	Vehicle has moved	Site / Lab Suitability:	Good
Kit No.	5	Microscope No.	2
Flowmeter No.	706	W/B Graticule area mm ²	0.0081
HSE/NPL Test Slide No.	6174	Stage Micrometer No.	6174
Visible Test Slide Band	50005	Thermometer ID & reading °C	703-00
Barometer ID & reading mbar	101	Location of Analysis	LAB / SITE

[illegible]

Type of Test: **L = Leak** **R = Reassurance** **C = Clearance** **P = Personal** **B = Background**

Clearance Test: These are carried out inside the enclosure. All areas are clean and dry with the results of all tests falling below 0.015 fibres per ml and 80% of all results less than 0.010 fibres per ml when all surfaces have been disturbed.

Test Method: In accordance with current HSG 248, CAR 2012, HSE guidance and the procedures laid down in the Asbestos Survey and Management Limited Quality Manual. For a volume of 480 litres of air sampled, two hundred Graticule areas will have to be examined to achieve the limit of detection of 0.010 f/ml.

“Opinions and Interpretations are outside the scope of UKAS Accreditation”

Sampling carried out by

Date

Analysis carried out by

Date 21/02/21

AIRBOURNE FIBRE SAMPLING ENCLOSURE / VISUAL INSPECTION PLAN

Certificate No. ASD / 15637



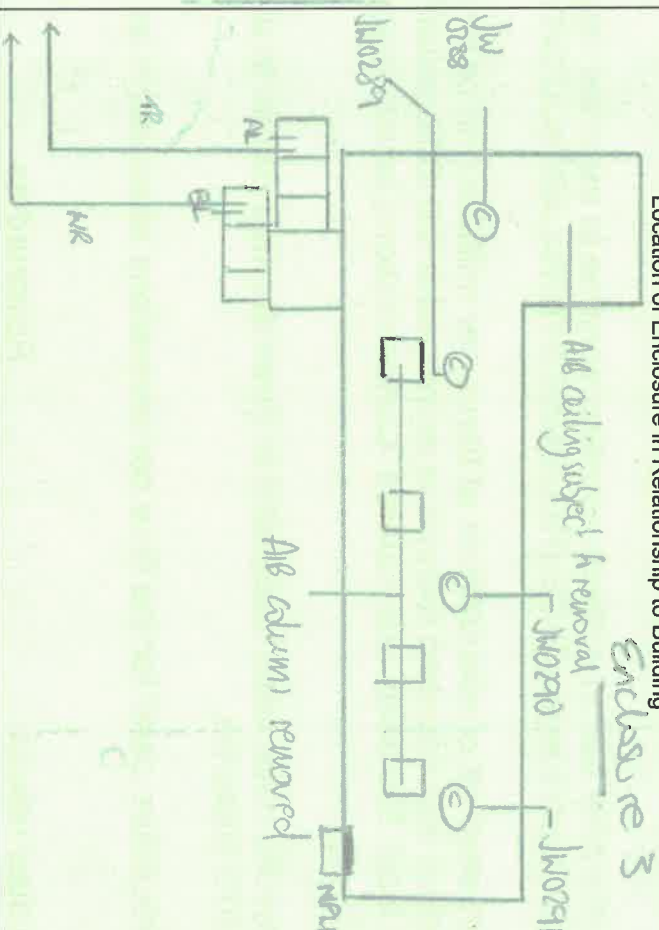
Job Number: 23820 Customer: Alderson & Sons Site: Ello Vale Stadium

Enclosure Diagram:

key

- AL - Air lock
- BL - Baglock
- TR - Transit route to DCU situated outside
- NR - Walk route to skip situated outside
- ☐ - Negative pressure unit (NPU)
- ☒ - Clearance pumps

Site Diagram: Detail location of Skip / DCU / Transit Route & Location of Enclosure in Relationship to Building



Enclosure Size = L x W x H (metres)

24 x 5 x 3 = 360m³

m.sq	m.cub	No. of Samples
N/A	<10	1
<50	150	2
100	300	3
200	600	4
500	1500	6
1000	3000	9
5000	15000	16
10000	30000	20

Number of Samples Required

= 4

Visual Inspection: Summarise Inspection Findings

Macroscopic fibre debris was identified during visual inspection

Dust Disturbance: State Type of Disturbance & Time Taken

6 mins long handled brown

Signed: Analyst: ...

Contractor: ...

Date: 21/05/21



AIRBORNE FIBRE SAMPLING ENCLOSURE / VISUAL INSPECTION PLAN

Certificate No. AMR / 15788



2544

Job Number: 23785	Site Address: Belle Vue Stadium
Customer: J. Anderson & Son	Microscope No. 2
Address: Unit 1 Boundary Rd. Salford	Flowmeter No. 100
Edmond New Lane, Salford, M6 6PU	WB Graticule area mm ² 0.0001
	HSE/NPL Test Slide No. 630
Phone / Fax:	Stage Micrometer No. 0.0001
	Visible Test Slide Band 0.0001
Requested by: Mr Alex H.B. removal	Thermometer ID & reading °C 123.4
Reason for Test: Asbestos removal	Barometer ID & reading mbar 1013.2
	Location of Analysis LAB / SITE

Test No.	Test Type	Pump	Head	Start Litres	Time On	Flow and Time check	Time Off	Finish Litres	Average Flow	Total Time (mins)	Total Volume	Fibres	Fields	No. Rejected Fields	Fibre Concentration (fibre / ml)	Reported Result (fibre / ml)
0167	C	LPA	1101	80	11:02	1	12:03	80	80	61	488	2	200	0	0.001	<0.01
0168	C	LPA	1106	80	11:06	2	12:05	80	80	61	488	2	200	0	0.001	<0.01
0169	C	LPA	1105	80	11:06	3	12:02	80	80	61	488	7	200	0	0.003	<0.01
0170	C	LPS	1102	80	11:08	—	12:09	80	80	61	488	4	200	0	0.002	<0.01
0171	FB	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Type of Test*: L = Leak R = Reassurance C = Clearance P = Personal B = Background

Clearance Test: These are carried out inside the enclosure. All areas are clean and dry with the results of all tests falling below 0.015 fibres per ml and 80% of all results less than 0.010 fibres per ml when all surfaces have been disturbed.
Test Method: In accordance with current HSG 248, CAR 2012, HSE guidance and the procedures laid down in the Asbestos Survey and Management Limited Quality Manual. For a volume of 480 litres of air sampled, two hundred Graticule areas will have to be examined to achieve the limit of detection of 0.010 f/ml.
"Opinions and Interpretations are outside the scope of UKAS"

Sampling carried out by [redacted]

Date 17/06/21

Analysis carried out by [redacted]

Date 17/06/21

Job Number: 23785 Customer: J Anderson & Sons Site: Belle Vue Stadium

Enclosure Diagram:

key.

AL - Airlock

BL - Baglock

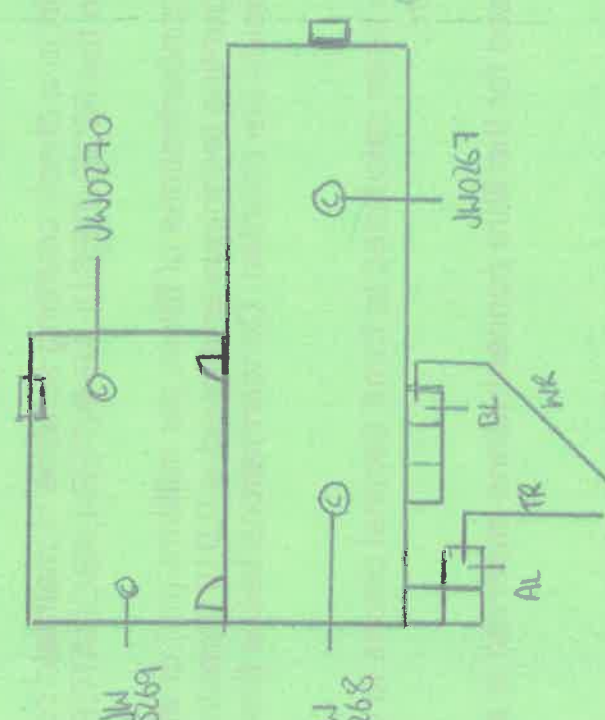
TR - Transit route to DCU situated outside the building

WR - Waste route to skip situated outside the building

□ - NPU

© - Clearance pumps

Site Diagram: Detail location of Skip / DCU / Transit Route & Location of Enclosure in Relationship to Building



Enclosure Size = L x W x H (metres)

24 6 35 544m³ =

m.sq	m.cub	No. of Samples
N/A	<10	1
<50	150	2
100	300	3
200	600	4
500	1500	6
1000	3000	9
5000	15000	16
10000	30000	20

Number of Samples Required = 4

Visual Inspection: Summarise Inspection Findings

Visual inspection

Dust Disturbance: State Type of Disturbance & Time Taken

6 mins. long handed vacuum

Signed: Analyst

Contractor

Date: 17/06/21

Job Number: 23878 Customer: JOHN ROBINSONS, RUDSEY Site: BARE VUE STADIUM

Enclosure Diagram: S15920 = STE ROBINSONS WHILST CARRYING OUT VISUAL INSPECTION, WEARING SUNSHIELD MASK FACE P3 FILTERED MASK + TYPE SP COVERS.

Site Diagram: Detail location of Skip / DCU / Transit Route & Location of Enclosure in Relationship to Building



Enclosure Size = L x W x H (metres) 27 x 2 x 5 = 270m³

m.sq	m.cub	No. of Samples
N/A	<10	1
<50	150	2
100	300	3
200	600	4
500	1500	6
1000	3000	9
5000	15000	16
10000	30000	20

Number of Samples Required = 3

Visual Inspection: Summarise Inspection Findings AREA IS FREE FROM VISIBLE SIGNS OF ASB DUST + DIBING

Dust Disturbance: State Type of Disturbance & Time Taken 11.5 mins using Borehole

Signed: Analyst [Redacted] Contractor [Redacted] Date: 250621



CERTIFICATE OF REOCCUPATION

No. COR / 1 / 9014



Customer Details: JOHN ADERSONS RIDGEY	Job Number: 23828 Date Completed: 250621
--	---

Site Address: BELL VUE STADIUM MANCHESTER	Name of Contractor: JOHN ADERSONS Contractors Representative: DAVE LAMOND Address: AS ABOVE
---	---

Brief description of areas to be assessed / Work carried out & dates work undertaken:
REMOVAL OF AIS CLADDING TO STEEL COLUMNS.

Method Statement Checked ☒ Ref: SITE FILE ASB 5 Checked ☒

Anticipated Start of the Assessment	Date: 250621	Time: AM
Confirmed Start of the Assessment	Date: 250621	Time: 0750

Stage 1 - Preliminary Assessment	*DELETE AS APPLICABLE	Comments*
Plan of work defines entire work area?	Yes / No	
Are warning signs present?	Yes / No	
Are viewing panels adequate and present?	Yes / No	
Is adequate lighting present within enclosure?	Yes / No	
Are there any potential hazards noted in enclosure?	Yes / No	
Removal of specified asbestos completed according to contractor information?	Yes / No	
Transit route clean & skip area tidy?	Yes / No	
Waste route/storage area clean?	Yes / No	
Hygiene facilities intact and operable, clean and free from asbestos waste?	Yes / No	
Enclosure & associated systems intact and operable?	Yes / No	
Work area visually dry, clean and free from debris after inspection from viewing panel?	Yes / No	
Is generic risk assessment adequate?	Yes / No	
If No has a site specific RA been carried out?	Yes / No	
STAGE 1 PASS / FAIL DATE: 250621 START TIME: 0750 END TIME: 0800		AGREED BY CONTRACTOR:
Assessed by	Signature of Assessor	
Detail any MINOR additional works which are required as detailed observations following a fail at Stage 1:		
Has additional work been carried out satisfactorily? NA Yes / No		
STAGE 1 PASS / FAIL DATE: TIME:		AGREED BY CONTRACTOR:
Assessed by		Signature of Assessor

Test Methods are in accordance with current HSG248, CAR 2012 and HSE Guidance notes and the procedures laid down in ASM Limited Quality Manual "opinions and interpretations expressed herein are outside the Scope of UKAS accreditation."

Customer Details:

JOHN ANDERSON'S
PODSEN

Job Number: 23878

Date Completed: 250621

Stage 2 - Visual inspection

*DELETE AS APPLICABLE

Comments*

Airlocks/Baglocks & Enclosure clean and free from debris and unnecessary equipment?

Yes / No

Enclosure clean, dry and free from debris/dust and waste?

Yes / No

Evidence of lock down sprays?

Yes / No

Original floor surface uncovered?

Yes / No

Enclosure & associated systems intact?

Yes / No

All specified asbestos materials removed or encapsulated as plan of works?

Yes / No

Are there any friable dust surfaces/traps?

Yes / No

Has the visual been restricted in any way?

Yes / No

Specify any remaining asbestos within enclosure and immediate area?

Yes / No

Has additional cleaning been necessary?
(If yes detail discussions and problems encountered in comments section)

Yes / No

Time taken to carry out Stage 2 85 mins

STAGE 2 PASS / FAIL

DATE: 250621

START TIME: 0811

END TIME: 0936

Assessed by [REDACTED] Signature of Assessor [REDACTED]

PLASTER BOARD BOXING IN PLACE WITHIN ENCLOSURE. NO ACCESS INTO BOXING FOR VISUAL INSPECTION

ALL SURFACES ARE SHEETED OUT WITH POLYTHENE.

EXTERNAL SIDE OF COLUMNS STILL HAVE AIB CLADDING PRESENT. CEILING TILES AROUND THE OUTSIDE OF THE ENCLOSURE ARE POTENTIALLY ACM'S

TIMBER NOGGIN'S HAVE ALL BEEN REMOVED.

Stage 3 - Air Monitoring

NPU off and sealed?

Yes / No

Sampling and fibre counting procedures are those described by the HSE document HSG 248

See Air Monitoring Report Results Sheet Number AMR 15710

STAGE 3 PASS / FAIL

DATE: 250621

TIME: 1115

Assessed by [REDACTED] Signature of Assessor [REDACTED]

Customer Details:

JOHN ANDERSON'S
PUDSEY

Job Number: 23828

Date Completed: 250621

Stage 4 - Site Assessment after enclosure has been removed

*DELETE AS APPLICABLE

Is the work area free from asbestos dust/debris and waste? Yes / No ☒ YesHas the enclosure been removed satisfactorily? Yes / No ☒ YesIs the transit route free from dust and debris? Yes / No ☒ Yes

All ACMs in the Scope of Work have been removed and any AMCs remaining are intact and sealed/labelled

Has any additional asbestos been disturbed during the dismantling of enclosure? Yes / No ☒ NoIf yes has any additional air monitoring been undertaken (AMR number reference: AMR)? Yes / No ☒ No

STAGE 4 PASS / FAIL DATE: 250621 TIME: 1240

Assessed by [REDACTED] Signature of Assessor [REDACTED]

Comments*

CORTEX TO REMAIN IN PLACE
FOR FUTURE WORKS - POLYTHANE
TOP LAYER HAS BEEN REMOVED**This area CAN / CANNOT be returned for normal occupation**

Copies of the Certificate (reference numbers COR/1/.....9014....., COR/2/.....9014....., COR/3/.....9013.....)

and attachments:

AMR 15710 ASD 15560 DAMR HUIIC

Have been issued to the following people: DRAMOND

Signed: Analyst [REDACTED]

Printed: Analyst [REDACTED]

Signed: Contractor Representative [REDACTED]

Printed: Contractor Representative [REDACTED]

Date: 250621 Time: 1240

asm**CERTIFICATE OF REOCCUPATION****No. COR / 1 / 9206****2544**

Customer Details: <i>J. Adelson & Sons Ridley, BS28</i>	Job Number: <i>23759</i> Date Completed: <i>10/06/21</i>
Site Address: <i>Belle Vue Stadium Manchester</i>	Name of Contractor: <i>J. Adelson & Sons</i> Contractors Representative: <i>D. Raymond</i> Address: <i>As above</i>
Location of Enclosure: <i>Enclosure 7</i>	

Brief description of areas to be assessed / Work carried out & dates work undertaken:

*ASC after Asb removal from columns with associated personals & reassurance*Method Statement Checked ☒ Y / N Ref: *21-117* ASB 5 Checked ☒ Y / N

Anticipated Start of the Assessment	Date: <i>10/06/21</i>	Time: <i>AM</i>
Confirmed Start of the Assessment	Date: <i>10/06/21</i>	Time: <i>0830</i>

Stage 1 - Preliminary Assessment***DELETE AS APPLICABLE****Comments***

- | | |
|---|----------|
| Plan of work defines entire work area? | Yes / No |
| Are warning signs present? | Yes / No |
| Are viewing panels adequate and present? | Yes / No |
| Is adequate lighting present within enclosure? | Yes / No |
| Are there any potential hazards noted in enclosure? | Yes / No |
| Removal of specified asbestos completed according to contractor information? | Yes / No |
| Transit route clean & skip area tidy? | Yes / No |
| Waste route/storage area clean? | Yes / No |
| Hygiene facilities intact and operable, clean and free from asbestos waste? | Yes / No |
| Enclosure & associated systems intact and operable? | Yes / No |
| Work area visually dry, clean and free from debris after inspection from viewing panel? | Yes / No |
| Is generic risk assessment adequate? | Yes / No |
| If No has a site specific RA been carried out? | Yes / No |

Method statement & Asb 5 read & understood.

Enclosure is intact & operable with tool clean & free from in working order

Waste / Transit route free from Asb debris.

Stage 4 to be completed at a later date to be confirmed

STAGE 1 PASS / FAIL DATE: *10/06/21* START TIME: *11:15* END TIME: *11:22*
Assessed by *[Signature]* Signature of Assessor *[Signature]***AGREED BY CONTRACTOR** *[Signature]*

Detail any MINOR additional works which are required as detailed in the above observations following a fail at Stage 1:

Has additional work been carried out satisfactorily? Yes / No

STAGE 1 PASS / FAIL DATE: TIME:
Assessed by *[Signature]* Signature of Assessor *[Signature]***AGREED BY CONTRACTOR** *[Signature]*



CERTIFICATE OF REOCCUPATION

No. COR / 2 / 9205



Customer Details:

J. Andersons & Sons
Ridley, LS28

Job Number:

23759

Date Completed:

10/06/21

Stage 2 - Visual inspection

*DELETE AS APPLICABLE

Comments*

Airlocks/Baglocks & Enclosure clean and free from debris and unnecessary equipment?

Yes / No

Enclosure clean, dry and free from debris/dust and waste?

Yes / No

Evidence of lock down sprays?

Yes / No

Original floor surface uncovered?

Yes / No

Enclosure & associated systems intact?

Yes / No

All specified asbestos materials removed or encapsulated as plan of works?

Yes / No

Are there any friable dust surfaces/traps?

Yes / No

Has the visual been restricted in any way?

Yes / No

Specify any remaining asbestos within enclosure and immediate area?

Yes / No

Has additional cleaning been necessary?
(If yes detail discussions and problems encountered in comments section)

Yes / No

Time taken to carry out Stage 2

32 mins

STAGE 2 PASS / FAIL

DATE: 10/06/21

START TIME: 11:27

END TIME: 11:59

Assessed by

J. Hines

Signature

Stage 3 - Air Monitoring

NPU off and sealed?

Yes / No

Sampling and fibre counting procedures are those described by the HSE document HSG 248

See Air Monitoring Report Results Sheet Number AMR

15776

STAGE 3 PASS / FAIL

DATE: 01/06/21

TIME: 13:47

Assessed by

[Redacted]

Signature of

[Redacted]

All air tests returned lower than the clearance indicator.



AIRBORNE FIBRE SAMPLING ENCLOSURE / VISUAL INSPECTION PLAN

Certificate No. AMR / 15776



2544

Job Number: 23759
Customer: J. HARRIS & SONS
Address: Foundry Ind Estate, Pudsey, LS28
Phone / Fax:
Requested by: Kate Ann (owner) with primary test
Reason for Test: Asbestos removal with primary test
Site Address: Delta View Stadium, Alconbury Way, MK18
Kit No. 3
Microscope No. 2
Flowmeter No. 506
W/B Graticule area mm² 0.0071
HSE/NPL Test Slide No. 619
Stage Micrometer No. 0.5mm
Visible Test Slide Band 10005
Thermometer ID & reading °C T33-220
Barometer ID & reading mbar 1035-610
Location of Analysis LAB / SITE

Test No.	Test Type	Pump	Head	Start Litres	Time On	Flow and Time check			Time Off	Finish Litres	Average Flow	Total Time (mins)	Total Volume	Fibres	Fields	No. Rejected Fields	Fibre Concentration (fibre / ml)	Reported Result (fibre / ml)
						1	2	3										
0229	P	P3	F1106	4.0	0817	S. Dean			0837	4.0	4.0	20	80	1	200	0	0.003	0.003
0230	P	LP3	F1108	8.0	0820				0901	1.0	8.0	61	48	25	200	0	0.001	0.001
0231	P	P3	F1107	4.0	0916	D. Lennard			0906	4.0	4.0	20	80	4	200	0	0.009	0.009
0232	P	P3	F1106	4.0	1008	S. Farber			1008	4.0	4.0	20	80	3	200	0	0.009	0.009
0236	C	LP31	F1102	8.0	1209				1305	8.0	2.0	61	48	5	200	0	0.002	0.001
0237	C	LP32	F1104	8.0	1205				1306	8.0	2.0	61	48	7	200	0	0.003	0.001
0238	FB																	

Type of Test*: L = Leak R = Reassurance C = Clearance P = Personal B = Background

Clearance Test: These are carried out inside the enclosure. All areas are clean and dry with the results of all tests falling below 0.015 fibres per ml and 80% of all results less than 0.010 fibres per ml when all surfaces have been disturbed.

Test Method: In accordance with current HSG 248, CAR 2012, HSE guidance and the procedures laid down in the Asbestos Survey and Management Limited Quality Manual. For a volume of 480 litres of air sampled, two hundred Graticule areas will have to be examined to achieve the limit of detection of 0.010 f/ml.

"Opinions and Interpretations are outside the scope of UKAS Accreditation"

Sampling carried out by

Analysis carried out by

Date 10/06/11

Date 10/06/11



AIRBORNE FIBRE SAMPLING ENCLOSURE /
VISUAL INSPECTION PLAN



Certificate No. AMR / 15671

2544

Job Number:	23712	Site Address:	Belle Vue Stadium
Customer:	John Alderson and Son		Manchester
Address:	Richardshaw Lane		
	Arbury		
Phone / Fax:			
Requested by:	D Rainmond	Location of Works:	Site
Reason for Test:	Backgrounds / Personal	Site / Lab Suitability:	Satisfactory

Test No.	Test Type	Pump	Head	Start Litres	Time On	Flow and Time check			Time Off	Finish Litres	Average Flow	Total Time (mins)	Total Volume	Fibres	Fields	No. Rejected Fields	Fibre Concentration (fibre / ml)	Reported Result (fibre / ml)
210	B	27	1	8.0	09:21	1	2	3	10:21	8.0	8.0	60	480	4	200	0	0.002	<0.01
211	B	30	2	8.0	09:22	1	1	1	10:22	8.0	8.0	60	480	4	200	0	0.002	<0.01
212	P	P5	3	4.0	09:30	1	1	1	10:30	4.0	4.0	60	240	5	200	0	0.006	<0.02
213	P	P3	4	4.0	09:30	1	1	1	10:30	4.0	4.0	60	240	3	200	0	0.002	<0.02
214	P	P5	8	4.0	10:33	1	1	1	11:33	4.0	4.0	60	240	3	200	0	0.002	<0.02
215	FB																	

Type of Test*: L = Leak R = Reassurance C = Clearance P = Personal B = Background

Clearance Test: These are carried out inside the enclosure. All areas are clean and dry with the results of all tests falling below 0.015 fibres per ml and 80% of all results less than 0.010 fibres per ml when all surfaces have been disturbed.
Test Method: In accordance with current HSG 248, CAR 2012, HSE guidance and the procedures laid down in the Asbestos Survey and Management Limited Quality Manual. For a volume of 480 litres of air sampled, two hundred Graticule areas will have to be examined to achieve the limit of detection of 0.010 f/ml.
"Opinions and Interpretations are outside the scope of UKAS Accreditation"

Sampling carried out by		Signed		Date	3/6/21
Analysis carried out by		Signed		Date	3/6/21

Suite 3, New Media Centre, 36-42 New Long Eaton, Nottingham. Tel: 0115 946 2688 Fax: 0115 946 2689

Page 1 of 1

Job Number: 23712 Customer: Sch. H. Mason and Son Site: Belle Vue Stadium

Enclosure Diagram:	Site Diagram: Detail location of Skip / DCU / Transit Route & Location of Enclosure in Relationship to Building	Enclosure Size = L x W x H (metres)																											
<u>Test locations</u>	<u>Per send / s</u>	 X X =																											
# 210 - Enclosure 2 1st flr bar NPU exhaust	# 212 - 0 Rainard removing AIB (enclosure 2)	<table border="1"> <thead> <tr> <th>m.sq</th> <th>m.cub</th> <th>No. of Samples</th> </tr> </thead> <tbody> <tr> <td>N/A</td> <td><10</td> <td>1</td> </tr> <tr> <td></td> <td>150</td> <td>2</td> </tr> <tr> <td></td> <td>300</td> <td>3</td> </tr> <tr> <td></td> <td>600</td> <td>4</td> </tr> <tr> <td></td> <td>1500</td> <td>6</td> </tr> <tr> <td></td> <td>3000</td> <td>9</td> </tr> <tr> <td></td> <td>15000</td> <td>16</td> </tr> <tr> <td></td> <td>30000</td> <td>20</td> </tr> </tbody> </table>	m.sq	m.cub	No. of Samples	N/A	<10	1		150	2		300	3		600	4		1500	6		3000	9		15000	16		30000	20
m.sq	m.cub	No. of Samples																											
N/A	<10	1																											
	150	2																											
	300	3																											
	600	4																											
	1500	6																											
	3000	9																											
	15000	16																											
	30000	20																											
# 211 - Enclosure 2 Grd flr Air/baglock (adjacent)	# 213 - K Hoorath removing AIB (enclosure 2)	Number of Samples Required =																											
	# 214 - A Wood - outside man / bag room																												

Visual Inspection: Summarise Inspection Findings background and personal testing undertaken at the above locations / operatives during works. All ok

Dust Disturbance: State Type of Disturbance & Time Taken

Signed: Analyst: [Redacted] Contractor: [Redacted] Date: 3/6/21

Customer Details: J. Anderson & Sons Ridley, LS28 6BN	Job Number: 23672 Date Completed: 27/05/21
--	---

Site Address: Belle Vue Stadium Manchester, M8 7BA Location of Enclosure: Enclosure 1	Name of Contractor: J. Anderson Contractors Representative: D. Hammond Address: As above
---	--

Brief description of areas to be assessed / Work carried out & dates work undertaken:
 Use after AIB removal from enclosure 1 (as per method statement)

Method Statement Checked ☒ Y / ☐ N Ref: See File ASB 5 Checked ☒ Y / ☐ N

Anticipated Start of the Assessment	Date: 27/05/21	Time: Am
Confirmed Start of the Assessment	Date: 27/05/21	Time: 10.01

Stage 1 - Preliminary Assessment	*DELETE AS APPLICABLE	Comments*
Plan of work defines entire work area?	☒ Yes / ☐ No	Method statement & ASB 5 read & understood. Enclosure is lock & operable with DCU clear & in working order. Bank & transit route free from AIB debris.
Are warning signs present?	☒ Yes / ☐ No	
Are viewing panels adequate and present?	☒ Yes / ☐ No	
Is adequate lighting present within enclosure?	☒ Yes / ☐ No	
Are there any potential hazards noted in enclosure?	☒ Yes / ☐ No	
Removal of specified asbestos completed according to contractor information?	☒ Yes / ☐ No	
Transit route clean & skip area tidy?	☒ Yes / ☐ No	
Waste route/storage area clean?	☒ Yes / ☐ No	
Hygiene facilities intact and operable, clean and free from asbestos waste?	☒ Yes / ☐ No	
Enclosure & associated systems intact and operable?	☒ Yes / ☐ No	
Work area visually dry, clean and free from debris after inspection from viewing panel?	☒ Yes / ☐ No	
Is generic risk assessment adequate?	☒ Yes / ☐ No	
If No has a site specific RA been carried out?	☒ Yes / ☐ No	
STAGE 1 PASS / FAIL DATE: 27/05/21		AGREED BY CONTRACTOR: [Signature]
Assessed by [Signature] Signature of Assessor [Signature]		
Detail any MINOR additional works which are required as detailed in the above observations following a fail at Stage 1:		
Has additional work been carried out satisfactorily? ☒ Yes / ☐ No		
STAGE 1 PASS / FAIL DATE: TIME:		AGREED BY CONTRACTOR: [Signature]
Assessed by [Signature] Signature of Assessor [Signature]		

Test Methods are in accordance with current HSG248, CAR 2012 and HSE Guidance notes and the procedures laid down in ASM Limited Quality Manual "opinions and interpretations expressed herein are outside the Scope of UKAS accreditation."



CERTIFICATE OF REOCCUPATION



2544

No. COR / 2 / 9091

Customer Details:

J. Alderson & Son
Ridley, LS28 6BW

Job Number:

23672

Date Completed:

27/05/21

Stage 2 - Visual inspection

*DELETE AS APPLICABLE

Comments*

Airlocks/Baglocks & Enclosure clean and free from debris and unnecessary equipment?

Yes / No

Enclosure clean, dry and free from debris/dust and waste?

Yes / No

Evidence of lock down sprays?

Yes / No

Original floor surface uncovered?

Yes / No

Enclosure & associated systems intact?

Yes / No

All specified asbestos materials removed or encapsulated as plan of works?

Yes / No

Are there any friable dust surfaces/traps?

Yes / No

Has the visual been restricted in any way?

Yes / No

Specify any remaining asbestos within enclosure and immediate area?

Yes / No

Has additional cleaning been necessary?
(If yes detail discussions and problems encountered in comments section)

Yes / No

Time taken to carry out Stage 2 69 mins

STAGE 2 PASS / FAIL

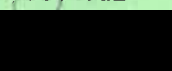
DATE:

27/05/21

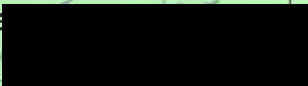
START TIME:

12:00

Assessed by



Signature of Assessor

**Stage 3 - Air Monitoring**

NPU off and sealed?

Yes / No

Sampling and fibre counting procedures are those described by the HSE document HSG 248

See Air Monitoring Report Results Sheet Number AMR 15750

STAGE 3 PASS / FAIL

DATE:

27/05/21

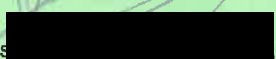
TIME:

14:50

Assessed by



Signature of Assessor

All air tests returned lower than the clearance indicator.
Additional personal air monitoring and reassurance air test was conducted within the waste van and on 2x operatives.



CERTIFICATE OF REOCCUPATION

No. COR / 3 / 9749



Customer Details:

JOHN ANDERSONS
PODSEY

Job Number: 23672

Date Completed: 070621

Stage 4 - Site Assessment after enclosure has been removed

*DELETE AS APPLICABLE

Is the work area free from asbestos dust/debris and waste? ☒ Yes / ☐ No

Has the enclosure been removed satisfactorily? ☒ Yes / ☐ No

Is the transit route free from dust and debris?
All ACMs in the Scope of Work have been removed and
any AMC remaining are intact and sealed/labelled ☒ Yes / ☐ No

Has any additional asbestos been disturbed during
the dismantling of enclosure? ☒ Yes / ☐ No

If yes has any additional air monitoring been undertaken
(AMR number reference: AMR)
☒ Yes / ☐ No

Comments*

ENCLOSURE 1 - STAGES 1-3
COMPLETED BY JAMES WINTER
770521

STAGE 4 PASS/FAIL DATE: 070621 TIME: 1234

Assessed by [redacted] signature of Assessor [redacted]

This area CAN / CANNOT be returned for normal occupation

Copies of the Certificate (reference numbers COR/1/....., COR/2/....., COR/3/.....)

and attachments:

AMR 15756 ASD 15604 DAMR - HUIC -

Have been issued to the following people: D MIMOND

Signed: Analyst [redacted]

Printed: Analyst [redacted]

Signed: Contractor Representative [redacted]

Printed: Contractor Representative [redacted]

Date: 070621 Time: 1234

Job Number:	25712	Site Address:	BRILL VUE STADIUM MANCHESTER M18 7BA
Customer:	JOHN ALDERSON	Kit No.:	
Address:	WILKINSON WAY (A16) WIDSEY LS7 6BN	Microscope No.:	3
Phone / Fax:		Flowmeter No.:	FAV 000785
Requested by:	ASC AIB JENN O'NEIL	W/B Graticule area mm ² :	6542
Reason for Test:		HSE/NPL Test Slide No.:	CSM08
		Stage Micrometer No.:	
		Visible Test Slide Band:	
		Thermometer ID & reading °C:	TR02 20
		Barometer ID & reading mbar:	800 103
		Location of Analysis:	LAB / SITE

[illegible]

Type of Test*: L = Leak R = Reassurance C = Clearance P = Personal B = Background

Clearance Test: These are carried out inside the enclosure. All areas are clean and dry with the results of all tests falling below 0.015 fibres per ml and 80% of all results less than 0.010 fibres per ml when all surfaces have been disturbed.

Test Method: In accordance with current HSG 248, CAR 2012, HSE guidance and the procedures laid down in the Asbestos Survey and Management Limited Quality Manual. For a volume of 480 litres of air sampled, two hundred Graticule areas will have to be examined to achieve the limit of detection of 0.010 f/ml.

Opinions and Interpretations are outside the scope of UKAS Accreditation²⁷

Sampling carried out by

Analysis carried out by

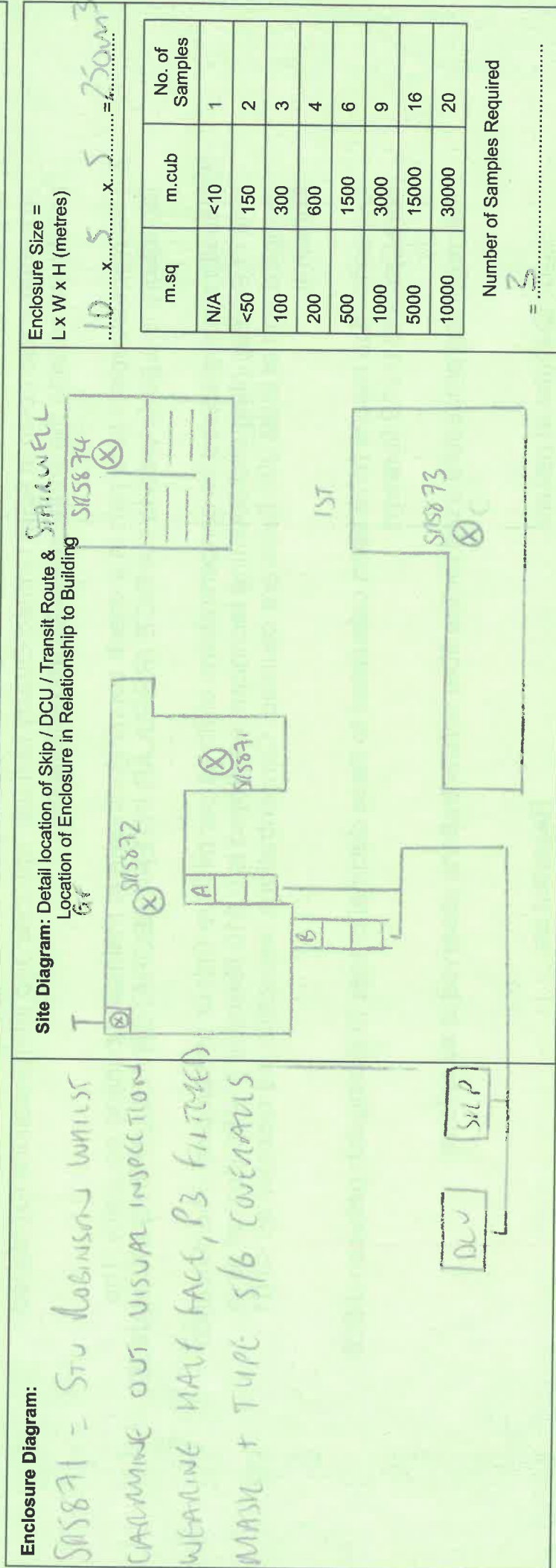
Signed Date

040621

Job Number: 23713 Customer: JOHN ANDERSONS, POOLEY Site: BLUE VUE STADIUM, MANCHESTER

Enclosure Diagram:
SAS871 = STU ROBINSON WHIST
CHECKING OUT VISUAL INSPECTION
WEARING HAT FACE, P3 FILTERED
MASK + TUBE S/B COVENANTS

Site Diagram: Detail location of Skip / DCU / Transit Route & Location of Enclosure in Relationship to Building



Enclosure Size = L x W x H (metres)
10 x 5 x 5 = 250m³

m.sq	m.cub	No. of Samples
N/A	<10	1
<50	150	2
100	300	3
200	600	4
500	1500	6
1000	3000	9
5000	15000	16
10000	30000	20

Number of Samples Required = 3

Visual Inspection: Summarise Inspection Findings
Area is free from visible signs of Air Dust + Debris

Dust Disturbance: State Type of Disturbance & Time Taken
1.5 mins per sample using Benda

Signed: Analyst: [Redacted] Contractor: [Redacted] Date: 7-6-21

Suite 3, New Media Centre, 36-42 New Tythe Street, Long Eaton, Nottingham. Tel: 0115 946 2688 Fax: 0115 946 2689

Page 22 of 22

asm**CERTIFICATE OF REOCCUPATION****No. COR / 1 / 9002****Customer Details:**JOHN ADAMSONS
RUDSEY

Job Number: 23713

Date Completed: 070621

Site Address:BEVE VUE STADIUM
MANCHESTER

Name of Contractor: JOHN ADAMSONS

Contractors Representative:

Address:

D RAIMOND
AS ABOVE.**Location of Enclosure:**

Brief description of areas to be assessed / Work carried out & dates work undertaken:

Method Statement Checked ☒ Y / ☐ N Ref: SITE FILE ASB 5 Checked ☒ Y / ☐ N

Anticipated Start of the Assessment

Date:

070621

Time:

Am

Confirmed Start of the Assessment

Date:

070621

Time:

0830

Stage 1 - Preliminary Assessment***DELETE AS APPLICABLE****Comments***

Plan of work defines entire work area?

Yes / No

Are warning signs present?

Yes / No

Are viewing panels adequate and present?

Yes / No

Is adequate lighting present within enclosure?

Yes / No

Are there any potential hazards noted in enclosure?

Yes / No

Removal of specified asbestos completed according to contractor information?

Yes / No

Transit route clean & skip area tidy?

Yes / No

Waste route/storage area clean?

Yes / No

Hygiene facilities intact and operable, clean and free from asbestos waste?

Yes / No

Enclosure & associated systems intact and operable?

Yes / No

Work area visually dry, clean and free from debris after inspection from viewing panel?

Yes / No

Is generic risk assessment adequate?

Yes / No

If No has a site specific RA been carried out?

Yes / No

STAGE 1 PASS / FAIL**DATE:** 070621**START TIME:** 0830
END TIME:**AGREED BY CONTRACTOR**

Assessed by Signature of Assessor

Detail any MINOR additional works which are required as det observations following a fail at Stage 1:

Has additional work been carried out satisfactorily? Yes / No

STAGE 1 PASS / FAIL**DATE:****TIME:****AGREED BY CONTRACTOR:**

Assessed by Signature of Assessor

Test Methods are in accordance with current HSG248, CAR 2012 and HSE Guidance notes and the procedures laid down in ASM Limited Quality Manual "opinions and interpretations expressed herein are outside the Scope of UKAS accreditation."

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Customer Details:

JOHN ALDRIDGE
PODSEY

Job Number: 23713

Date Completed: 070621

Stage 2 - Visual inspection

*DELETE AS APPLICABLE

Comments*

Airlocks/Baglocks & Enclosure clean and free from debris and unnecessary equipment?

Yes / No ☒ Yes

Enclosure clean, dry and free from debris/dust and waste?

Yes / No ☒ Yes

Evidence of lock down sprays?

Yes / No ☒ No

Original floor surface uncovered?

Yes / No ☒ No

Enclosure & associated systems intact?

Yes / No ☒ No

All specified asbestos materials removed or encapsulated as plan of works?

Yes / No ☒ No

Are there any friable dust surfaces/traps?

Yes / No ☒ No

Has the visual been restricted in any way?

Yes / No ☒ No

Specify any remaining asbestos within enclosure and immediate area?

Yes / No ☒ NoHas additional cleaning been necessary?
(If yes detail discussions and problems encountered in comments section)Yes / No ☒ No

ALL SURFACES ARE SHEETED OUT WITH POLYTHENE.

NO ACCESS INTO WALL/CEILING OR FLOOR JOINTS FOR INSPECTION.

ALL ADJOINING TIMBER HAS BEEN REMOVED

Time taken to carry out Stage 2 70 mins

STAGE 2 PASS / FAIL

DATE: 070621

START TIME: 0858
END TIME: 1008

Assessed by

Signature of Assessor

Stage 3 - Air Monitoring

NPU off and sealed?

Yes / No ☒ No

Sampling and fibre counting procedures are those described by the HSE document HSG 248

See Air Monitoring Report Results Sheet Number AMR 15547

STAGE 3 PASS / FAIL

DATE: 070621

TIME: 1204

Assessed by

Signature of Assessor



CERTIFICATE OF REOCCUPATION

No. COR / 3 / 9002



Customer Details:

Job Number: 23713

Date Completed: 09/06/21

JOHN AIDGASONS
PUDSEY

Stage 4 - Site Assessment after enclosure has been removed

*DELETE AS APPLICABLE

Is the work area free from asbestos dust/debris and waste? Yes / No

Has the enclosure been removed satisfactorily? Yes / No

Is the transit route free from dust and debris? Yes / No

All ACMs in the Scope of Work have been removed and any AMC's remaining are intact and sealed/labelled

Has any additional asbestos been disturbed during the dismantling of enclosure? Yes / No

If yes has any additional air monitoring been undertaken (AMR number reference: AMR) Yes / No

STAGE 4 PASS / FAIL

DATE: 09/06/21

TIME: 1220

Assessed by [redacted] Signature of Assessor [redacted]

Comments*

This area CAN / CANNOT be returned for normal occupation

Copies of the Certificate (reference numbers COR/1/.....9002....., COR/2/.....9002....., COR/3/.....9002.....)

and attachments:

AMR 15547 ASD 15397 DAMR - HUIC -

Have been issued to the following people: D Laimond

Signed: Analyst [redacted]

Printed: Analyst [redacted]

Signed: Contractor Representative [redacted]

Printed: Contractor Representative [redacted]

Date: 09/06/21 Time: 1220



CERTIFICATE OF REOCCUPATION

No. COR / 1 / 9214



Customer Details: J. Alderson & Son Ridway, LS28	Job Number: 23785 Date Completed: 17/06/21
---	---

Site Address: Belle Vue Stadium Manchester, M18	Name of Contractor: J. Alderson & Son Contractors Representative: D. Rainard Address: As above
Location of Enclosure: Enclosures 8 & 9 combined	

Brief description of areas to be assessed / Work carried out & dates work undertaken:
ASC after

Method Statement Checked Y / N Ref: 21-117	ASB 5 Checked Y / N
--	---------------------

Anticipated Start of the Assessment	Date: 17/06/21	Time: AM
Confirmed Start of the Assessment	Date: 17/06/21	Time: 08:47

Stage 1 - Preliminary Assessment	*DELETE AS APPLICABLE	Comments*
Plan of work defines entire work area?	Yes / No	Method statement & ASB 5 read & understood. Enclosure in fact & operable with DCM clean & in working order. Waste & transit route free from Asbestos debris. Stage 4 to be completed at a later date due to time restraints.
Are warning signs present?	Yes / No	
Are viewing panels adequate and present?	Yes / No	
Is adequate lighting present within enclosure?	Yes / No	
Are there any potential hazards noted in enclosure?	Yes / No	
Removal of specified asbestos completed according to contractor information?	Yes / No	
Transit route clean & skip area tidy?	Yes / No	
Waste route/storage area clean?	Yes / No	
Hygiene facilities intact and operable, clean and free from asbestos waste?	Yes / No	
Enclosure & associated systems intact and operable?	Yes / No	
Work area visually dry, clean and free from debris after inspection from viewing panel?	Yes / No	
Is generic risk assessment adequate?	Yes / No	
If No has a site specific RA been carried out?	Yes / No	
STAGE 1 PASS / FAIL DATE: 17/06/21 START TIME: 08:47 END: [redacted] AGREED BY CONTRACTOR: [redacted]		
Assessed by: [redacted] Signature of Assessor: [redacted]		
Detail any MINOR additional works which are required as observations following a fail at Stage 1:		
Has additional work been carried out satisfactorily? [redacted] s / No		
STAGE 1 PASS / FAIL DATE: [redacted] T: [redacted] AGREED BY CONTRACTOR: [redacted]		
Assessed by: [redacted] Signature of Assessor: [redacted]		

CERTIFICATE OF REOCCUPATION

No. COR / 2 / 9213

Customer Details:

J Andersons & Son
Puckey, LS28

Job Number:

23785

Date Completed:

17/06/21

Stage 2 - Visual inspection

*DELETE AS APPLICABLE

Comments*

Airlocks/Baglocks & Enclosure clean and free from debris and unnecessary equipment?

Yes / No

Enclosure clean, dry and free from debris/dust and waste?

Yes / No

Evidence of lock down sprays?

Yes / No

Original floor surface uncovered?

Yes / No

Enclosure & associated systems intact?

Yes / No

All specified asbestos materials removed or encapsulated as plan of works?

Yes / No

Are there any friable dust surfaces/traps?

Yes / No

Has the visual been restricted in any way?

Yes / No

Specify any remaining asbestos within enclosure and immediate area?

Yes / No

Has additional cleaning been necessary?
(If yes detail discussions and problems encountered in comments section)

Yes / No

Time taken to carry out Stage 2 91 mins

STAGE 2 PASS / FAIL

DATE: 17/06/21

START TIME: 0927
END TIME: 1058

Assessed by

Signature of As

Stage 3 - Air Monitoring

NPU off and sealed?

Yes / No

Sampling and fibre counting procedures are those described by the HSE document HSG 248

See Air Monitoring Report Results Sheet Number AMR 15788

STAGE 3 PASS / FAIL

DATE: 17/06/21

TIME: 1248

Assessed by

Signature of Asse

All air tests returned lower than the clearance indicator.

Customer Details:

J. Alderson & Sons
Ridley, LS28

Job Number:

Date Completed: 21/06/21

Stage 4 - Site Assessment after enclosure has been removed

*DELETE AS APPLICABLE

Is the work area free from asbestos dust/debris and waste? Yes / No

Has the enclosure been removed satisfactorily? Yes / No

Is the transit route free from dust and debris? Yes / No

All ACMs in the Scope of Work have been removed and any AMC remaining are intact and sealed/labelled

Has any additional asbestos been disturbed during the dismantling of enclosure? Yes / No

If yes has any additional air monitoring been undertaken (AMR number reference: AMR N/A)

Comments*

All enclosure waste removed & disposed accordingly

STAGE 4 PASS / FAIL

DATE: 21/06/21

TIME: 0847

Assessed by

Signature of A

This area CAN / CANNOT be returned for normal occupation

Copies of the Certificate (reference numbers COR/1/.....9214....., COR/2/.....9213....., COR/3/.....9212.....)

and attachments:

AMR ASD DAMR HUIC

Have been issued to the following people:

D. Kinnaird, J. Alderson & Sons

Signed: Analyst

Printed: Analyst

Signed: Contractor Representative

Printed: Contractor Representative

Date:

Time:



CERTIFICATE OF REOCCUPATION

No. COR / 1 / 9227



Customer Details:

John Andersson & Sons
Ridsey, LS286BN

Job Number:

23909

Date Completed:

07/07/21

Site Address:

Belle Vue Stadium
Manchester, M18 7JA

Name of Contractor:

Contractors Representative:

Address:

John Andersson & Sons
D Raymond
As above

Location of Enclosure:

Score Board

Brief description of areas to be assessed / Work carried out & dates work undertaken:

4SC after AIO removal

Method Statement Checked

Y / N

Ref: 21-117

ASB 5 Checked

Y / N

Anticipated Start of the Assessment

Date:

07/07/21

Time:

AM

Confirmed Start of the Assessment

Date:

07/07/21

Time:

0817

Stage 1 - Preliminary Assessment

*DELETE AS APPLICABLE

Comments*

Plan of work defines entire work area?

Yes / No

Are warning signs present?

Yes / No

Are viewing panels adequate and present?

Yes / No

Is adequate lighting present within enclosure?

Yes / No

Are there any potential hazards noted in enclosure?

Yes / No

Removal of specified asbestos completed according to contractor information?

Yes / No

Transit route clean & skip area tidy?

Yes / No

Waste route/storage area clean?

Yes / No

Hygiene facilities intact and operable, clean and free from asbestos waste?

Yes / No

Enclosure & associated systems intact and operable?

Yes / No

Work area visually dry, clean and free from debris after inspection from viewing panel?

Yes / No

Is generic risk assessment adequate?

Yes / No

If No has a site specific RA been carried out?

Yes / No

STAGE 1 PASS / FAIL

DATE: 07/07/21

START TIME: 0817

END TIME: 0837

Assessed by

Signature of Assessor

Detail any MINOR additional works which are required following a fail at Stage 1:

Has additional work been carried out satisfactorily?

Yes / No

STAGE 1 PASS / FAIL

DATE:

TIME:

AGREED BY CONTRACTOR

Signature of Assessor

Test Methods are in accordance with current HSG248, CAR 2012 and HSE Guidance notes and the procedures laid down in ASM Limited Quality Manual "opinions and interpretations expressed herein are outside the Scope of UKAS accreditation."

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CERTIFICATE OF REOCCUPATION

No. COR / 2 / 9226



Customer Details: John Alderson & Son
Rudsey, LS28 6BN

Job Number: 23907

Date Completed: 07/07/11

Stage 2 - Visual inspection

*DELETE AS APPLICABLE

Comments*

Airlocks/Baglocks & Enclosure clean and free from debris and unnecessary equipment?

Yes / No

Enclosure clean, dry and free from debris/dust and waste?

Yes / No

Evidence of lock down sprays?

Yes / No

Original floor surface uncovered?

Yes / No

Enclosure & associated systems intact?

Yes / No

All specified asbestos materials removed or encapsulated as plan of works?

Yes / No

Are there any friable dust surfaces/traps?

Yes / No

Has the visual been restricted in any way?

Yes / No

Specify any remaining asbestos within enclosure and immediate area?

Yes / No

Has additional cleaning been necessary?
(If yes detail discussions and problems encountered in comments section)

Yes / No

Time taken to carry out Stage 2 83 mins

STAGE 2 PASS / FAIL

DATE: 07/07/11

START TIME: 08.55
END TIME: 10.08

Assessed by

Signature of Assessor

Stage 3 - Air Monitoring

NPU off and sealed?

Yes / No

Sampling and fibre counting procedures are those described by the HSE document HSG 248

See Air Monitoring Report Results Sheet Number AMR 15806

STAGE 3 PASS / FAIL

DATE: 07/07/11

TIME: 12.17

Assessed by

Signature of Assessor

Air removed with all timbers to which it was fixed. Floor has been covered with corrug board sheeting & cleaned as part of work. No macroscopic Asbestos debris was identified during visual inspection.

All air tests returned lower than the clearance indicator.

AIRBORNE FIBRE SAMPLING ENCLOSURE / VISUAL INSPECTION PLAN

Certificate No. AMR / 15806



Job Number: 73909	Site Address: Kello Yire Studios	Kit No. 57
Customer: John McDermott & Sons	Manchester	Microscope No. 706
Address: Unit 1 Bowden Ind Estate, Richard Street, Bowden, Levensall, 1528 66N	M20 7BA	Flowmeter No. 106
Phone / Fax:		W/B Graticule area mm ² 412
Requested by: AL after AS removed	Location of Works: Year 3 wood	HSE/NPL Test Slide No. 101M7
Reason for Test:	Site / Lab Suitability: Good	Stage Micrometer No. 101M7
		Visible Test Slide Band 10005
		Thermometer ID & reading °C 153-15
		Barometer ID & reading mbar 103-107
		Location of Analysis LAB / SITE

Test No.	Test Type	Pump	Head	Start Litres	Time On	Flow and Time check			Time Off	Finish Litres	Average Flow	Total Time (mins)	Total Volume	Fibres	Fields	No. Rejected Fields	Fibre Concentration (fibre / ml)	Reported Result (fibre / ml)
						1	2	3										
0340	C	LP24	1101	80	10:20				11:21	80	8.0	61	488	35	200	0	0.001	<0.01
0341	C	LP19	1103	80	10:20				11:22	80	8.0	62	496	4	200	0	0.002	<0.01
0342	C	LP20	1104	80	10:21				11:22	80	8.0	61	488	3	200	0	0.001	<0.01
0343	C	LP32	1105	80	10:22				11:23	80	8.0	61	488	25	200	0	0.001	<0.01
0344	C	LP33	1102	80	10:23				11:24	80	8.0	61	488	3	200	0	0.001	<0.01
0345	C	LP08	1107	80	10:23				11:24	80	8.0	61	488	5	200	0	0.001	<0.01
0346	FB																	

Type of Test*: L = Leak R = Reassurance C = Clearance P = Personal B = Background

Clearance Test: These are carried out inside the enclosure. All areas are clean and dry with the results of all tests falling below 0.015 fibres per ml and 80% of all results less than 0.010 fibres per ml when all surfaces have been disturbed.

Test Method: In accordance with current HSG 248, CAR 2012, HSE guidance and the procedures laid down in the Asbestos Survey and Management Limited Quality Manual. For a volume of 480 litres of air sampled, two hundred Graticule areas will have to be examined to achieve the limit of detection of 0.010 f/ml.

"Opinions and Interpretations are outside the scope of UKAS Accreditation"

Sampling carried out by: [Redacted]

Signed: [Redacted]

Date: 01/01/11

Signed: [Redacted]

Date: 01/01/11

Customer Details: J Alderson & Son Rudney, LS28 6Gw	Job Number: 23820 Date Completed: 21/06/21
--	---

Site Address: Belle Vue Studios Manchester Enclosure 3	Name of Contractor: J Alderson & Son Contractors Representative: D. Rainard Address: As above
--	---

Brief description of areas to be assessed / Work carried out & dates work undertaken:
48c after Asb removal from columns & a small ceiling

Method Statement Checked ☒ Y / ☐ N Ref: 21-117 ASB 5 Checked ☒ Y / ☐ N

Anticipated Start of the Assessment	Date: 21/06/21	Time: Am
Confirmed Start of the Assessment	Date: 21/06/21	Time: 0904

Stage 1 - Preliminary Assessment	*DELETE AS APPLICABLE	Comments*
Plan of work defines entire work area?	☒ Yes / ☐ No	Method statement & Asb 5 read & understood Enclosure is intact & operable with 3cc clean & in working order. Waste / transit route free from Asb debris Stage 4 to be conducted at a later date due to time restraints
Are warning signs present?	☒ Yes / ☐ No	
Are viewing panels adequate and present?	☒ Yes / ☐ No	
Is adequate lighting present within enclosure?	☒ Yes / ☐ No	
Are there any potential hazards noted in enclosure?	☒ Yes / ☐ No	
Removal of specified asbestos completed according to contractor information?	☒ Yes / ☐ No	
Transit route clean & skip area tidy?	☒ Yes / ☐ No	
Waste route/storage area clean?	☒ Yes / ☐ No	
Hygiene facilities intact and operable, clean and free from asbestos waste?	☒ Yes / ☐ No	
Enclosure & associated systems intact and operable?	☒ Yes / ☐ No	
Work area visually dry, clean and free from debris after inspection from viewing panel?	☒ Yes / ☐ No	AGREED BY CONTRACTOR: [Signature]
Is generic risk assessment adequate?	☒ Yes / ☐ No	
If No has a site specific RA been carried out?	☒ Yes / ☐ No	
STAGE 1 PASS / FAIL DATE: 21/06/21 START TIME: 0906 END TIME: 1229		
Assessed by [Signature] .. Signature of Assessor [Signature]		
Detail any MINOR additional works which are required as observations following a fail at Stage 1:		
Has additional work been carried out satisfactorily?		
STAGE 1 PASS / FAIL DATE: TIME: AGREED BY CONTRACTOR: [Signature]		
[Signature] .. Signature of Assessor [Signature]		

Test Methods are in accordance with current HSG248, CAR 2012 and HSE Guidance notes and the procedures laid down in ASM Limited Quality Manual "opinions and interpretations expressed herein are outside the Scope of UKAS accreditation."

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Customer Details:

J Alderson & Son
Rudney LS28

Job Number:

23825

Date Completed:

21/06/14

Stage 2 - Visual inspection

*DELETE AS APPLICABLE

Comments*

Airlocks/Baglocks & Enclosure clean and free from debris and unnecessary equipment?

Yes / No

Enclosure clean, dry and free from debris/dust and waste?

Yes / No

Evidence of lock down sprays?

Yes / No

Original floor surface uncovered?

Yes / No

Enclosure & associated systems intact?

Yes / No

All specified asbestos materials removed or encapsulated as plan of works?

Yes / No

Are there any friable dust surfaces/traps?

Yes / No

Has the visual been restricted in any way?

Yes / No

Specify any remaining asbestos within enclosure and immediate area?

Yes / No

Has additional cleaning been necessary? (If yes detail discussions and problems encountered in comments section)

Yes / No

Time taken to carry out Stage 2 44 mins

STAGE 2 PASS / FAIL

DATE: 21/06/14

START TIME: 0925

END TIME: 1019

Assessed by [redacted] Signature of [redacted]

Air removed from a small ceiling & a number of columns.

All timbers were brushed & nail holes drilled.

Due to the void above the ~~floor~~ Air ceiling, a false ceiling was added prior to columns removed to create a seal.

No macroscopic Asbestos debris was identified during visual inspection.

Stage 3 - Air Monitoring

NPU off and sealed?

Yes / No

Sampling and fibre counting procedures are those described by the HSE document HSG 248

See Air Monitoring Report Results Sheet Number AMR 15794

STAGE 3 PASS / FAIL

DATE: 21/06/14

TIME: 1222

Assessed by [redacted] Signature of Assessor [redacted]

All air tests returned lower than the clearance indicator.

Job Number: 02759 Customer: J. Anderson & Sons Site: Belle Vue Stadium

Enclosure Diagram: key

- AL - Airlock
- BL - Baglock
- NR - NPU
- TR - Transit Route
- WR - Waste Route
- © - clearance pumps
- Ⓟ - reassurance air test
- Ⓢ - personal air tests

Site Diagram: Detail location of Skip / DCU / Transit Route & Location of Enclosure in Relationship to Building

Enclosure Size = L x W x H (metres)
11 x 6.35 x 9.65 m

m.sq	m.cub	No. of Samples
N/A	<10	1
<50	150	2
100	300	3
200	600	4
500	1500	6
1000	3000	9
5000	15000	16
10000	30000	20

Number of Samples Required = 2

Visual Inspection: Summarise Inspection Findings # Personal air tests on 5 Dec during waste transfer, D found no S. Forbert during removal works.

Dust Disturbance: State Type of Disturbance & Time Taken

no microscopic dust debris identified during visual inspection

3 mins

Signed: Analyst: [Redacted] Contractor: [Redacted] Date: 10/06/01

asm**CERTIFICATE OF REOCCUPATION****No. COR / 1 / 9205**

Customer Details: J. Andersons & Son Ridgely, 1828	Job Number: 23759 Date Completed: 10/06/21
---	---

Site Address: Belle Vue Stadium Manchester, M18	Name of Contractor: J. Andersons & Son Contractors Representative: D. Rainford Address: As above
Location of Enclosure: Enclosure 10	

Brief description of areas to be assessed / Work carried out & dates work undertaken: ASB after AIB removed from a column - Enclosure 10

Method Statement Checked ☒ Y / ☐ N Ref: 2-117	ASB 5 Checked ☒ Y / ☐ N
--	--

Anticipated Start of the Assessment	Date: 10/06/21	Time: AM
Confirmed Start of the Assessment	Date: 10/06/21	Time: 0747

Stage 1 - Preliminary Assessment	*DELETE AS APPLICABLE	Comments*
Plan of work defines entire work area?	Yes / No	Method statement & ASB 5 read & understood. Enclosure is intact & operable with DLU clean & in working order. Waste & transit route free from debris.
Are warning signs present?	Yes / No	
Are viewing panels adequate and present?	Yes / No	
Is adequate lighting present within enclosure?	Yes / No	
Are there any potential hazards noted in enclosure?	Yes / No	
Removal of specified asbestos completed according to contractor information?	Yes / No	
Transit route clean & skip area tidy?	Yes / No	
Waste route/storage area clean?	Yes / No	
Hygiene facilities intact and operable, clean and free from asbestos waste?	Yes / No	
Enclosure & associated systems intact and operable?	Yes / No	
Work area visually dry, clean and free from debris after inspection from viewing panel?	Yes / No	
Is generic risk assessment adequate?	Yes / No	
If No has a site specific RA been carried out?	Yes / No	
STAGE 1 PASS / FAIL DATE: 10/06/21 START TIME: 0747 END TIME: 1200 AGREED BY CONTRACTOR: [Signature]		
Assessed by [Signature] Signature of Assessor		
Detail any MINOR additional works which are required as a result of observations following a fail at Stage 1:		
Has additional work been carried out satisfactorily?	Yes / No	
STAGE 1 PASS / FAIL DATE: TIME: AGREED BY CONTRACTOR: [Signature]		
Assessed by [Signature] Signature of Assessor		

Test Methods are in accordance with current HSG248, CAR 2012 and HSE Guidance notes and the procedures laid down in ASM Limited Quality Manual "opinions and interpretations expressed herein are outside the Scope of UKAS accreditation."

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CERTIFICATE OF REOCCUPATION

No. COR / 2 / 9204

Customer Details:

J Alderson & Son
Ridley, LS28

Job Number:

23759

Date Completed:

10/06/21

Stage 2 - Visual inspection

*DELETE AS APPLICABLE

Comments*

Airlocks/Baglocks & Enclosure clean and free from debris and unnecessary equipment?

Yes / ☒ No

Enclosure clean, dry and free from debris/dust and waste?

Yes / ☒ No

Evidence of lock down sprays?

Yes / ☒ No

Original floor surface uncovered?

Yes / ☒ No

Enclosure & associated systems intact?

Yes / ☒ No

All specified asbestos materials removed or encapsulated as plan of works?

Yes / ☒ No

Are there any friable dust surfaces/traps?

Yes / ☒ No

Has the visual been restricted in any way?

Yes / ☒ No

Specify any remaining asbestos within enclosure and immediate area?

Yes / ☒ NoHas additional cleaning been necessary?
(If yes detail discussions and problems encountered in comments section)Yes / ☒ No

Time taken to carry out Stage 2

15 mins

STAGE 2 PASS / FAIL

DATE:

START TIME:

Assessed by

Signature of Ass

Stage 3 - Air Monitoring

NPU off and sealed?

Yes / ☒ No

Sampling and fibre counting procedures are those described by the HSE document HSG 248

See Air Monitoring Report Results Sheet Number AMR

15775

STAGE 3 PASS / FAIL

DATE:

TIME:

Assessed by

Signature of Assess

All AFB has been removed along with associated timber.

No macroscopic AFB debris was identified during the visual inspection

Stage 3 to be completed at 10.00 AM 10/06/21

All air tests returned lower than the clearance indicator

Certificate No. AMR / 15775



2544

Job Number:	03759
Customer:	Anderson & Sons (Hd)
Address:	Frederick Md 21701 Frederick, MD 21701
Phone / Fax:	
Requested by:	
Reason for Test:	All other Pb removed
Site Address:	Selle Van Stadium Washington NY 11781
Location of Works:	Exposure 10
Site / Lab Suitability:	Good
Kit No.	32
Microscope No.	1000
Flowmeter No.	00008
W/B Graticule area mm ²	0.25
HSE/NPL Test Slide No.	100002
Stage Micrometer No.	50005
Visible Test Slide Band	12
Thermometer ID & reading °C	805 10.0
Barometer ID & reading mbar	
Location of Analysis	LAB / SITE

[illegible]

Type of Test*: L = Leak R = Reassurance C = Clearance P = Personal B = Background

Clearance Test: These are carried out inside the enclosure. All areas are clean and dry with the results of all tests falling below 0.015 fibres per ml and 80% of all results less than 0.010 fibres per ml when all surfaces have been disturbed.

Test Method: In accordance with current HSG 248, CAR 2012, HSE guidance and the procedures laid down in the Asbestos Survey and Management Limited Quality Manual. For a volume of 480 litres of air sampled, two hundred Graticule areas will have to be examined to achieve the limit of detection of 0.010 f/ml.

"Opinions and Interpretations are outside the scope of UKAS Accreditation"

Date _____

Date _____

AIRBOURNE FIBRE SAMPLING ENCLOSURE / VISUAL INSPECTION PLAN

Certificate No. ASD / 15648

Job Number: 73909

Customer:

John Alderman & Sons

Site:

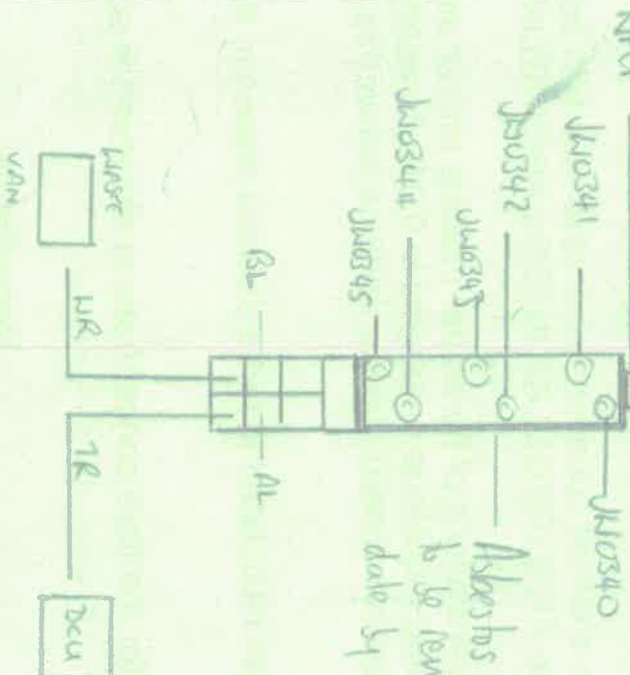
Kello Vale Sandpurs

Enclosure Diagram:

key

AL - Air lock
BL - Baglock
NL - Loose route
TR - Transit route
NPL - Negative Pressure Unit

Site Diagram: Detail location of Skip / DCU / Transit Route & Location of Enclosure in Relationship to Building



Enclosure Size =
L x W x H (metres)

35 x 22 x 9 = 6840

m.sq	m.cub	No. of Samples
N/A	<10	1
<50	150	2
100	300	3
200	600	4
500	1500	6
1000	3000	9
5000	15000	16
10000	30000	20

Number of Samples Required

= 20

Visual Inspection: Summarise Inspection Findings

No macroscopic fibre debris identified during visual inspection

Dust Disturbance: State Type of Disturbance & Time Taken

9 hrs long handled haul

Signed: An

Contractor

Date:

21/07/15

asm

CERTIFICATE OF REOCCUPATION

No. COR / 3 / 9222



Customer Details:

John Alderson & Sons
Pudsey, LS28 6LN

Job Number:

23909

Date Completed:

07/05/12

Stage 4 - Site Assessment after enclosure has been removed

*DELETE AS APPLICABLE

Comments*

Is the work area free from asbestos dust/debris and waste? Yes / No

Has the enclosure been removed satisfactorily? Yes / No

Is the transit route free from dust and debris? Yes / No
All ACMs in the Scope of Work have been removed and any ACMs remaining are intact and sealed/labelled

Has any additional asbestos been disturbed during the dismantling of enclosure? Yes / No

If yes has any additional air monitoring been undertaken (AMR number reference: AMR)? Yes / No

STAGE 4 PASS / FAIL

DATE: 07/05/12 TIME:

Assessed by: J. Alderson Signature of Assessor: [Signature]

Full enclosure waste removed & disposed accordingly

This area CAN / CANNOT be returned for normal occupation

Copies of the Certificate (reference numbers COR/1/....., COR/2/....., COR/3/.....)

and attachments:

AMR ASD DAMR HUIC

Have been issued to the following people:

D. Raymond - John Alderson & Sons

Signed: Analyst

Printed: Analyst

Signed: Contractor Representative

Printed: Contractor Representative

Date:

Time:

AIRBORNE FIBRE SAMPLING ENCLOSURE / VISUAL INSPECTION PLAN

Certificate No. AMR / 15756



Job Number: 73672	Site Address: Belle Vue Stadium	Kit No. 32
Customer: J. Madgwick	Flowmeter No. 106	Microscope No. 106
Address: Richard Shaw Lane, Brierley, 15756	W/B Graticule area mm ² 0.001	HSE/NPL Test Slide No. 1001
Phone / Fax:	Stage Micrometer No. 1001	Visible Test Slide Band
Requested by: AY after Fib removal	Thermometer ID & reading °C 1003 - 1001	Barometer ID & reading mbar 1003 - 1001
Reason for Test: AY after Fib removal	Location of Works: Enclosure 1	Location of Analysis: LAB / SITE

Test No.	Test Type	Pump	Head	Start Litres	Time On	Flow and Time check			Time Off	Finish Litres	Average Flow	Total Time (mins)	Total Volume	Fibres	Fields	No. Rejected Fields	Fibre Concentration (fibre / ml)	Reported Result (fibre / ml)
						1	2	3										
001	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
002	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
003	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
004	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
005	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
006	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
007	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
008	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
009	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
010	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
011	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
012	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
013	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
014	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
015	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
016	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
017	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
018	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
019	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
020	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
021	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
022	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
023	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
024	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
025	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
026	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
027	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
028	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
029	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
030	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
031	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01
032	P	P1	4.0	11.7	11.7	11.7	11.7	11.7	11.7	4.0	4.0	11.7	84	3	200	0	0.001	<0.01

Type of Test*: L = Leak R = Reassurance C = Clearance P = Personal B = Background

Clearance Test: These are carried out inside the enclosure. All areas are clean and dry with the results of all tests falling below 0.015 fibres per ml and 80% of all results less than 0.010 fibres per ml when all surfaces have been disturbed.
Test Method: In accordance with current HSG 248, CAR 2012, HSE guidance and the procedures laid down in the Asbestos Survey and Management Limited Quality Manual. For a volume of 480 litres of air sampled, two hundred Graticule areas will have to be examined to achieve the limit of detection of 0.010 f/ml.
"Opinions and Interpretations are outside the scope of UKAS Accreditation"

Sampling carried out by	Signed	Date
Analysis carried out by	Signed	Date

AIRBOURNE FIBRE SAMPLING ENCLOSURE / VISUAL INSPECTION PLAN

Certificate No. ASD / 15604



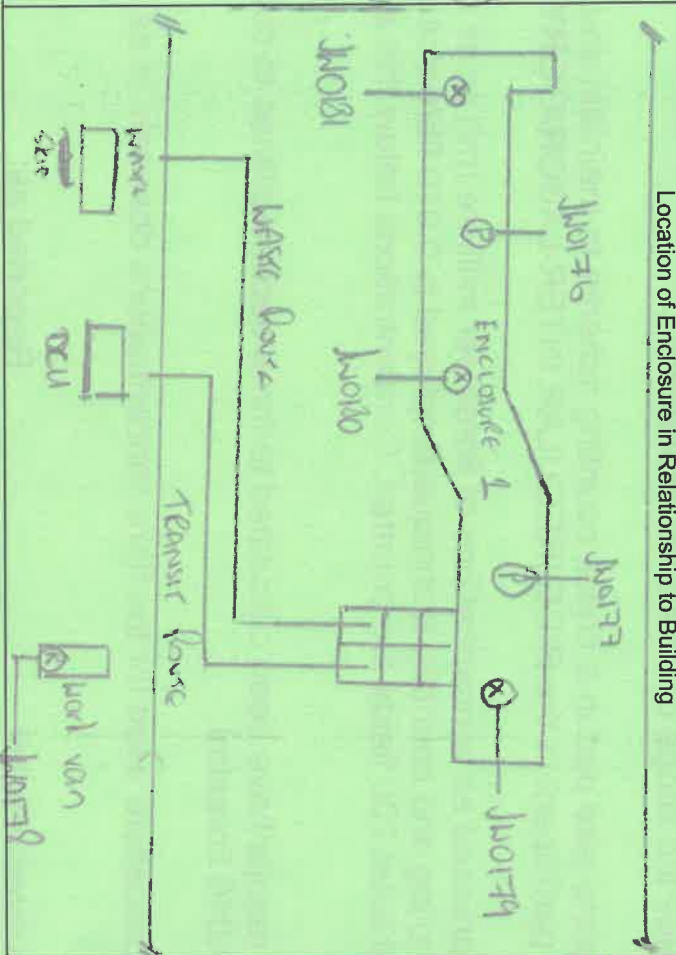
Job Number: 23572 Customer: J. Anderson & Sons Site: 25th Ave. Sturminster

Enclosure Diagram:

Personal monitoring @:

Conducted on employee David and 8 S taken during general cleaning duties
Employees wearing full face mask with P3 filter, type s/b overall & wear negative pressure

Site Diagram: Detail location of Skip / DCU / Transit Route & Location of Enclosure in Relationship to Building



Enclosure Size = L x W x H (metres)

30 x 30 x 30 = 27000

m.sq	m.cub	No. of Samples
N/A	<10	1
<50	150	2
100	300	3
200	600	4
500	1500	6
1000	3000	9
5000	15000	16
10000	30000	20

Number of Samples Required

= 3

Visual Inspection: Summarise Inspection Findings

As above skip Area clear, period during visual inspection

Dust Disturbance: State Type of Disturbance & Time Taken

4.5 min. Long loaded bag

Signed: Analyst

Contractor

Date:

AIRBOURNE FIBRE SAMPLING ENCLOSURE / VISUAL INSPECTION PLAN

Certificate No. ASD / 15620

Job Number: 23159

Customer: J. Alderson & Son

Site: Belle Vue Stadium

Enclosure Diagram:

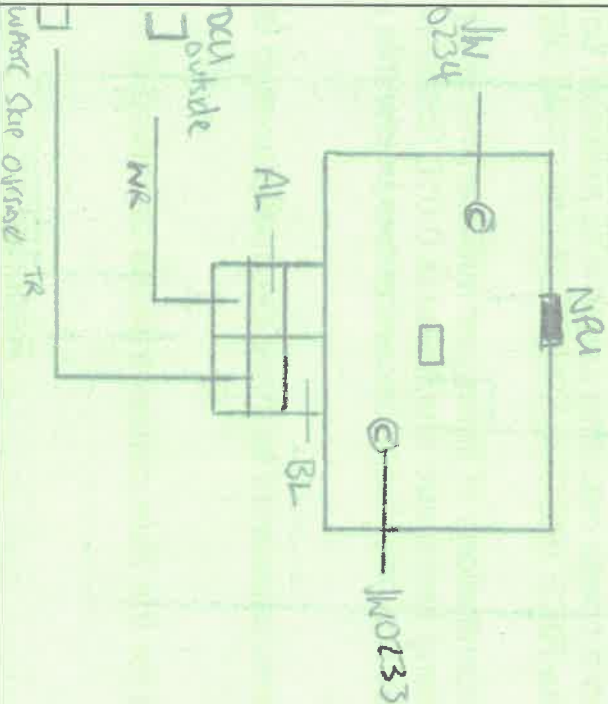
bay

AL - Air lock
H - Hinged door

TR - Transit route
WR - Waste route

© - Clearance pump

Site Diagram: Detail location of Skip / DCU / Transit Route & Location of Enclosure in Relationship to Building



Enclosure Size =
L x W x H (metres)

15 x 5 x 2.5 = 187.5

m.sq	m.cub	No. of Samples
N/A	<10	1
<50	150	2
100	300	3
200	600	4
500	1500	6
1000	3000	9
5000	15000	16
10000	30000	20

Number of Samples Required

= 20

Visual Inspection: Summarise Inspection Findings

No macroscopic fibre debris identified.

Dust Disturbance: State Type of Disturbance & Time Taken

3 mins - long handled vacuum

Signed: Ana

Contractor

Date:

T: (01274) 731803 E: rdsdemo@yahoo.co.uk
M: 07802 165871

PART A Notification details

1 Consignment note code: **ALDSON/00800**

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
**BOULEVARD STATION
MANCHESTER
M18 7BA**

3 Premises code (where applicable): **ALDSON**

4 The waste will be taken to (name, address and postcode):

**BRADLEY PARK WASTE MANAGEMENT
LOWER QUARRY ROAD
Huddersfield HD1 2JW**

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

**JOHN HENDERSON + SON LTD -
RUDSEY**

PART B Description of the waste

1 The process giving rise to the waste(s) was:

2 SIC for the process giving rise to the waste:

45-251

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code) (6 digits)	Quantity (kg)	The chemical/biological components of the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
FIBROUS	170601	15T	ANOXIS	15%	BAGS	H7	40TYN

The information given below is to be completed for each EWC identified

EWC code	Packing group(s)	UN identification number(s)	Proper shipping name(s)	UN class(es)	Special handling requirements
170601	II	2212	BROWN FIBROUS	9	SP168

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

1 Carrier name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

2 Carrier registration no./reason for exemption:

3 Vehicle registration:

Signature

Date

22062021

Time

1230

PART D Consignor's certificate

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

1 Consignor name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Signature

Date

22062021

Time

1230

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170601	3,560	✓	D5

1 I received this waste at the address given in A4 on:

Date

22062021

Time

1355

2 Vehicle registration no. (or mode of transport if not road):

NX190HU

3 Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s):

UP3434HA

authorises the management of the waste described in B at the address given in A4.

Name: **CAS WH - EDA**
On behalf of (name, address, postcode, telephone, e-mail, facsimile):
Bradley Park Waste Management

**Lower Quarry Road
Huddersfield**

Signature

Date

22062021

Time

1355



Bradley Park Waste Management Ltd
Bradley Park Landfill Site
Lower Quarry Road
Huddersfield
West Yorkshire HD2 1FN
Tel: 01484 534 976
email: info@bradleyparkwastemanagement.com

WEIGHBRIDGE TICKET

Landfill Tax No. 01990 1668 93000
EA Permit No. EPR/LP3434HA

Registration : NX19 OHU
Driver Name :
Haulier : RDS DEMOLITION
Waste Carrier Licence
CB/DU220577
Ticket No.: 090455

Customer : RDSDEMOL RDS Demolition
Order No.:

Waste : 17 06 01 insulation materials containing asbestos

Waste Transfer No : ALDSON/00800

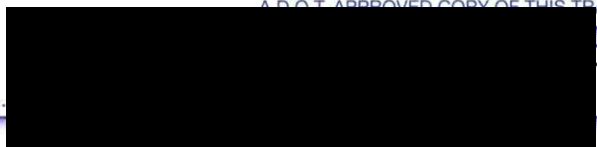
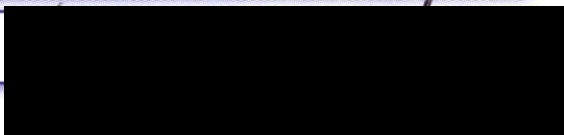
Source : Manchester

X 00.000 Y: 00.000 Z: 000

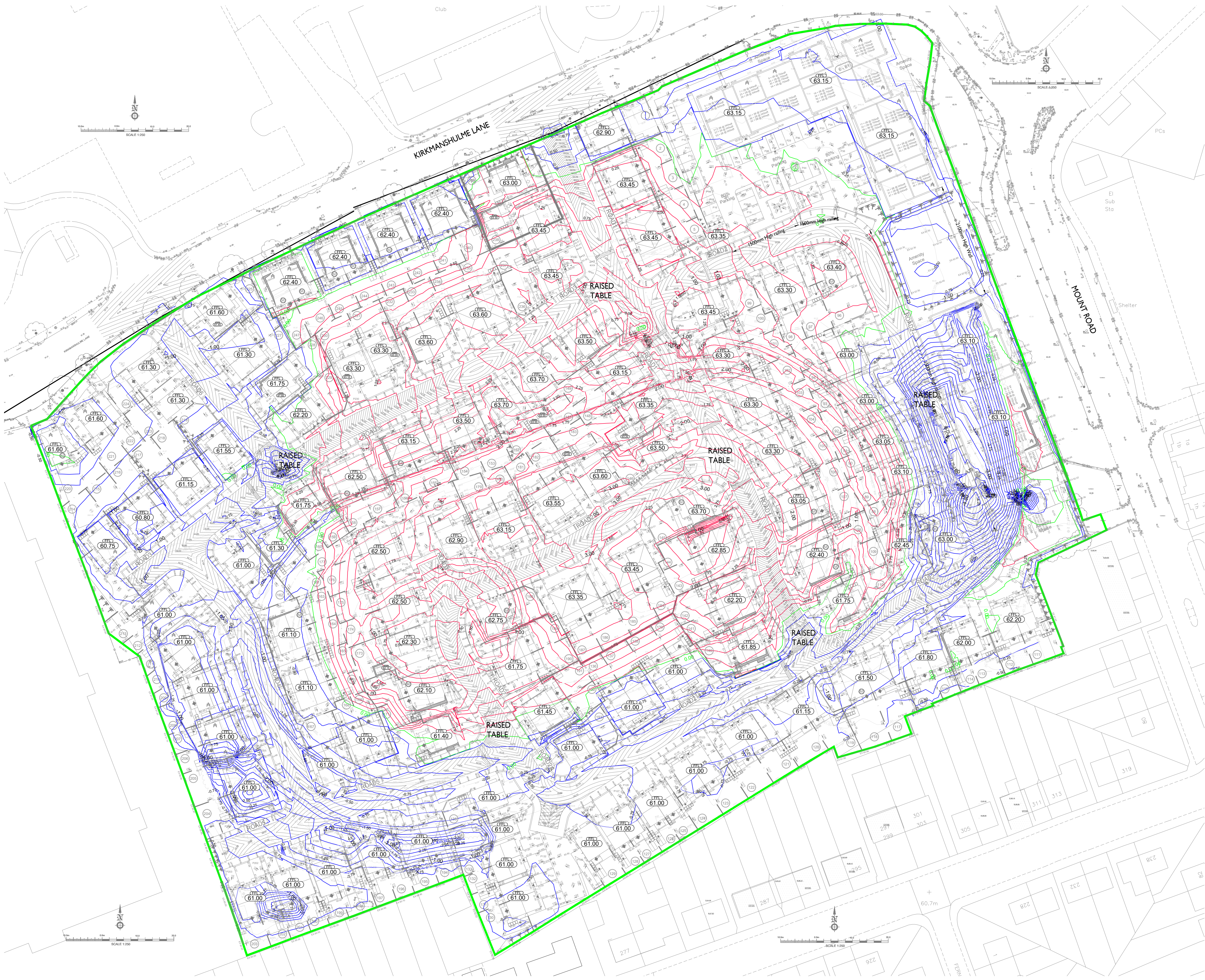
Remark :

First Weight :	22,080 kg	22/06/2021	13:55:22	1,027,4	MAN
Second Weight :	18,520 kg	22/06/2021	14:55:34	1,027,4	MAN
Net :	3,560 kg				

A D O T APPROVED COPY OF THIS TRANSACTION IS AVAILABLE FOR 6 MONTHS FROM THE WEIGHMENT



APPENDIX X CONTRACTOR DRAWINGS AND INFORMATION

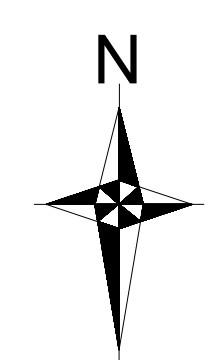


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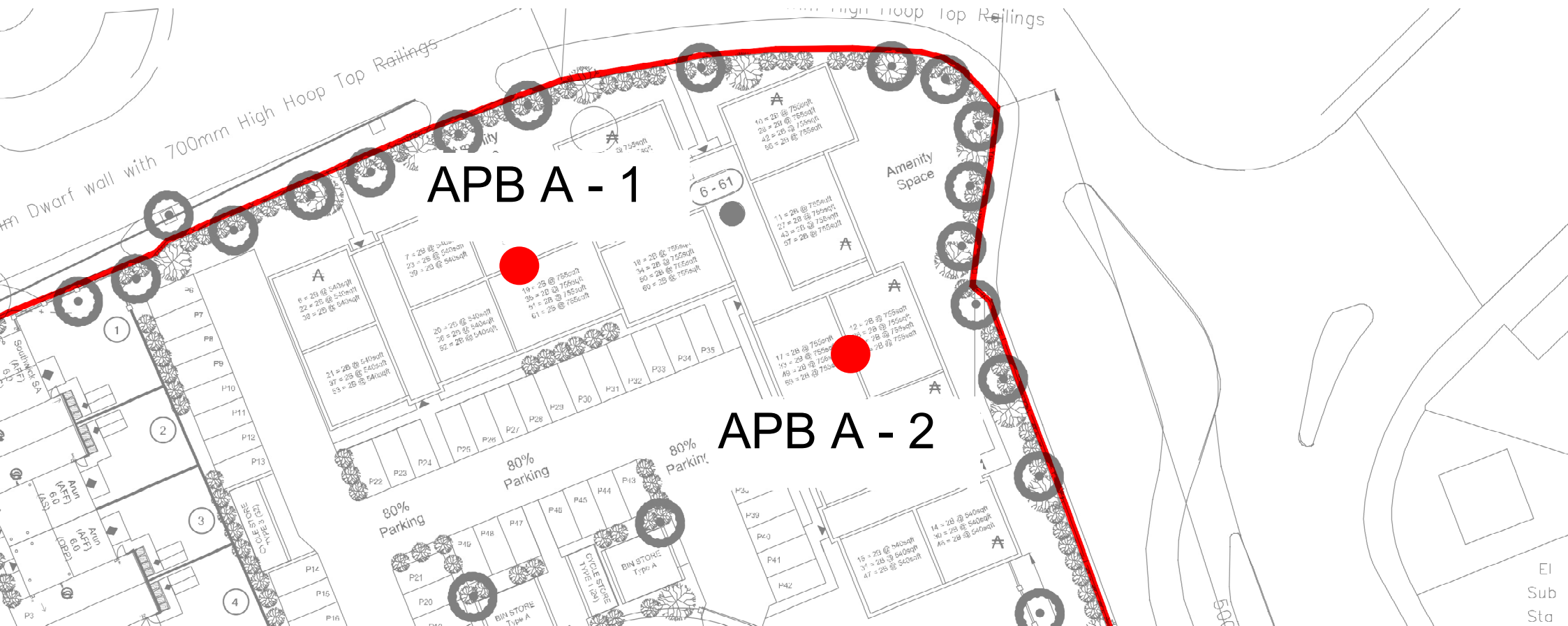
Cut Contour —

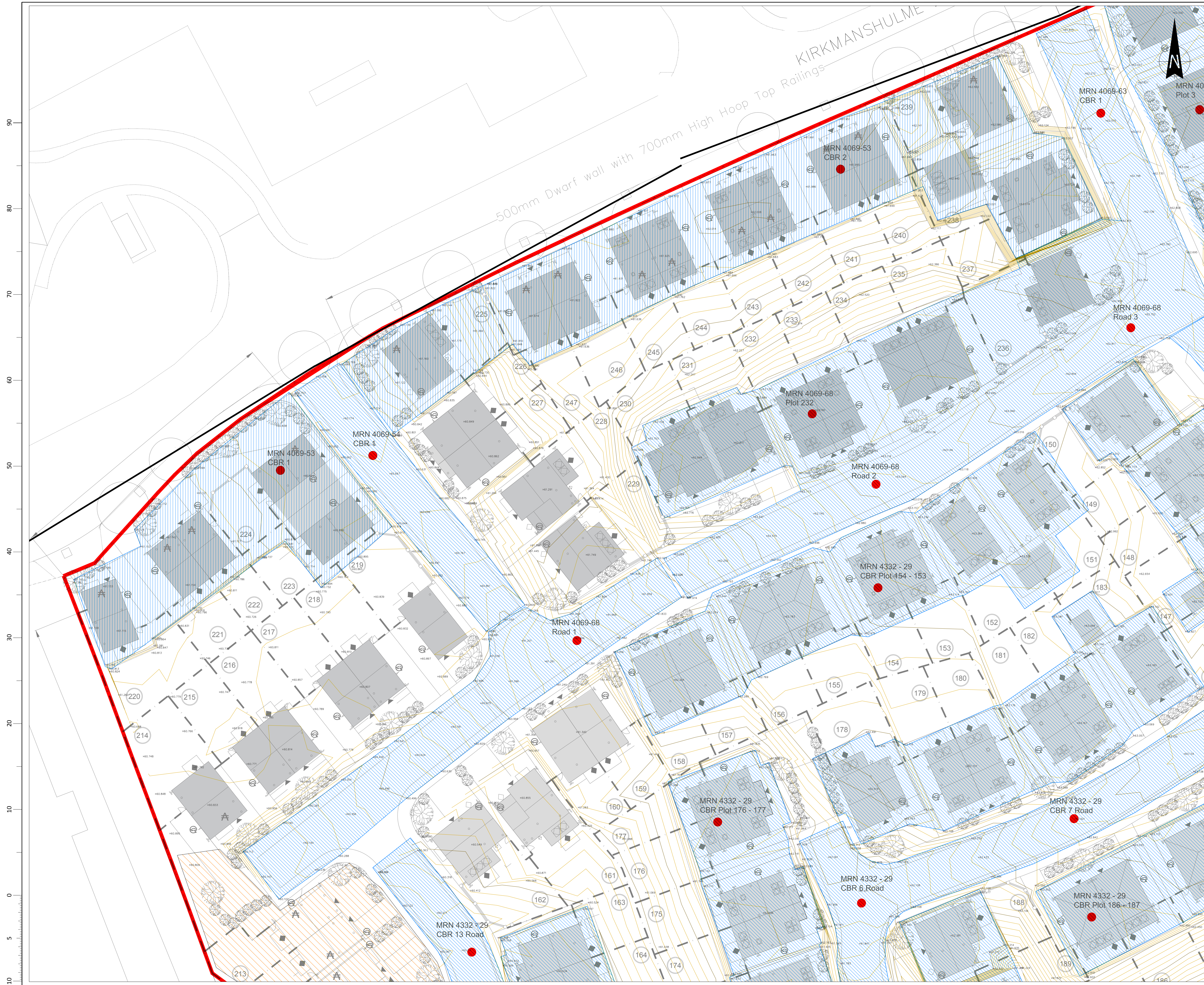
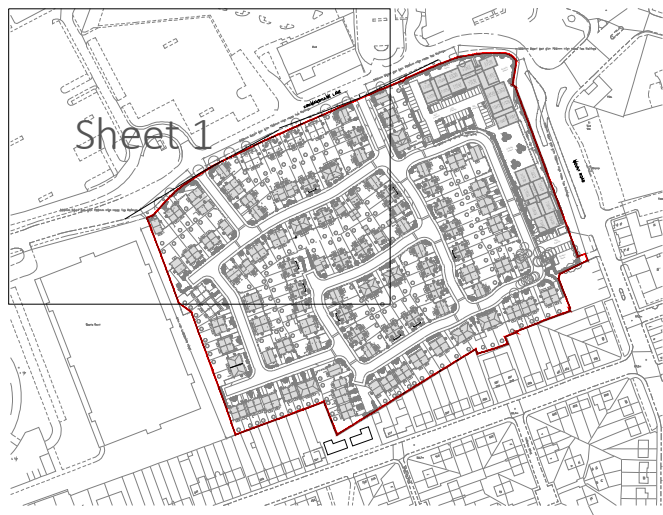
Fill Contour —

Balance Contour —



Rev	Revision	By	Date
Belle Vue Gorton			
Cut and Fill Layout			
<div><div>Urban Regen ESTABLISHED 2001</div></div>			
Scale @ A1 1:500	Date December 2020	Drawn By CB	
Drawing No. UR/BELLEVUE/CF		Revision. -	

EI
Sub
Sta



Sheet Plan Scale 1:5000

Notes:

Key

- Site boundary
- Major contour
- Minor contour
- Spot level
- Bottom / top of bank
- Plot footprints
- Crushed areas
- CBR test locations (see note 3)
- JKW Burial cells
- Chandos Lay-down area
- CuTex Knotweed barrier

Notes

- This plan is to be read in conjunction with the associated E3P validation report and other drawings.
- The residential layout depicted on this plan is extracted from drawing *ELL-18039-B-CS-140-143 External Works Layout dwg* supplied digitally by CPPLC.
- All CBR test were carried out by Murray Rix, see Test report.
- All site surveying has been carried out using Leica GNSS survey equipment.
- All CAD work has been carried out using AutoCAD Civil 3D 2018.
- All survey and thematic information detailed on this plan has been provided by the Urban Regen Ltd survey team allocated on site.

Survey Information:

Co-ord System:	Co-ord Type:	Primary Survey Control:	Secondary Survey Control:
OSGB36(15)	Grid	Leica SmartNet	Site
D	20/05/2022	As-built information updated	DR
C	14/01/2022	As-built information updated	SW
B	13/10/2021	As-built information updated	DR
A	05/10/2021	As-built information updated	SW
Rev	Date	Amendment	Drawn
			Checked



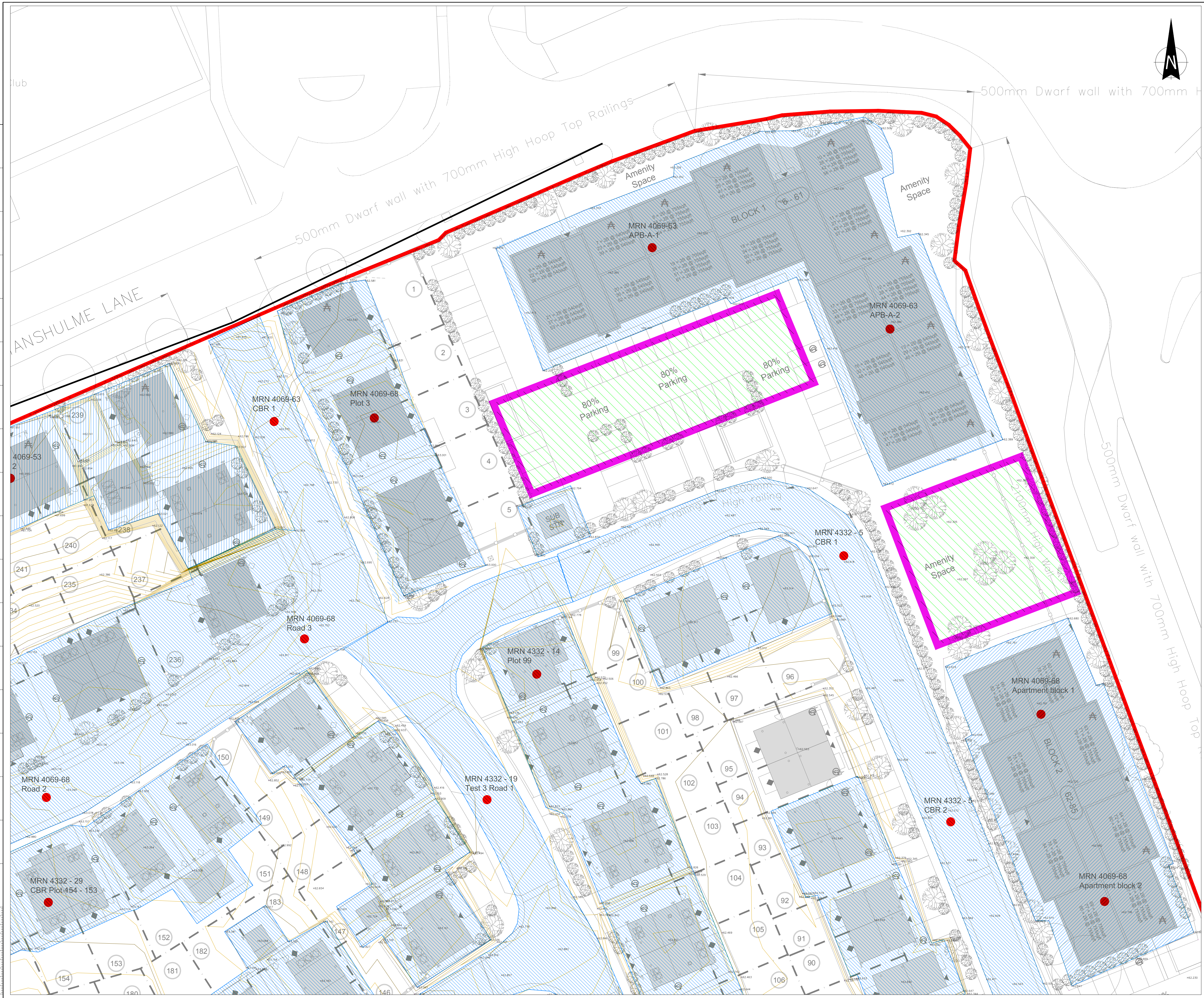
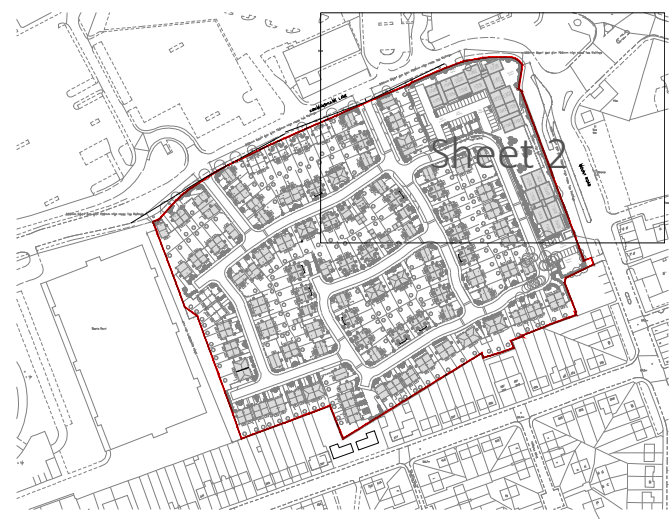
Client: COUNTRYSIDE PROPERTIES

Project: Former Belle Vue Dog Track,
Kirkmanshulme Lane,
Gorton, Manchester

Title: As-built topographic survey
and constraints Sheet 1

Scale:	First Issue:	Drawn:	Checked:
1:250 @ A1	04/10/2021	D Royle	S Wilson

Drawing No:	Revision:
18039-B-CS-140-143 -ABS-DR-001	D



Sheet Plan Scale 1:5000

Notes:

Key	
Site boundary	Red line
Major contour	Yellow line
Minor contour	Orange line
Spot level	Number in circle
Bottom / top of bank	Dashed line
Plot footprints	Blue hatched area
Crushed areas	Blue hatched area
CBR test locations (see note 3)	Red dot
JKW Burial cells	Green hatched area
Chandos Lay-down area	Orange hatched area
CuTex Knotweed barrier	Purple line

- Notes
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 - The residential layout depicted on this plan is extracted from drawing 'ELL-18039-B-CS-140-143 External Works Layout dwg' supplied digitally by CPPLC.
 - All CBR test were carried out by Murray Rix, see Test report.
 - All site surveying has been carried out using Leica GNSS survey equipment.
 - All CAD work has been carried out using AutoCAD Civil 3D 2018.
 - All survey and thematic information detailed on this plan has been provided by the Urban Regen Ltd survey team allocated on site.

Survey Information:

Co-ord System:	Co-ord Type:	Primary Survey Control:	Secondary Survey Control:
OSGB36(15)	Grid	Leica SmartNet	Site

D	20/05/2022	As-built information updated	DR	SW
C	14/01/2022	As-built information updated	DR	SW
B	13/10/2021	As-built information updated	DR	SW
A	05/10/2021	As-built information updated	DR	SW
Rev	Date	Amendment	Drawn	Checked



Client:		COUNTRYSIDE PROPERTIES					
Project:		Former Belle Vue Dog Track, Kirkmanshulme Lane, Gorton, Manchester					
Title:		As-built topographic survey and constraints Sheet 1					
Scale:	1:250 @ A1	First Issue:	04/10/2021	Drawn:	D Royle	Checked:	S Wilson
Drawing No:							Revision:
18039-B-CS-140-143 -ABS-DR-002							D



Sheet Plan Scale 1:5000

Notes:

Key

- Site boundary
- Major contour
- Minor contour
- Spot level
- Bottom / top of bank
- Plot footprints
- Crushed areas
- CBR test locations (see note 3)
- JKW Burial cells
- Chandos Lay-down area
- CuTex Knotweed barrier

Notes

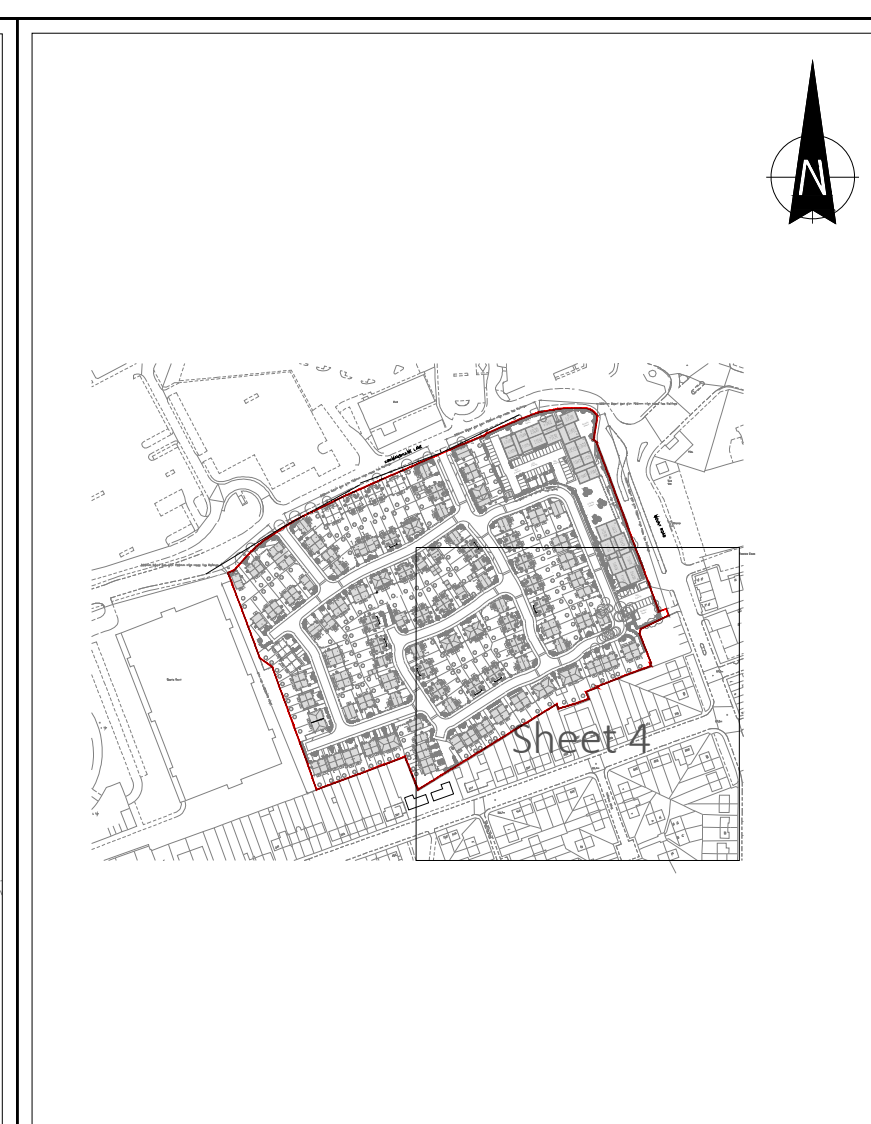
- This plan is to be read in conjunction with the associated E3P validation report and other drawings.
- The residential layout depicted on this plan is extracted from drawing *ELL-18039-B-CS-140-143 External Works Layout dwg* supplied digitally by CPPLC.
- All CBR test were carried out by Murray Rix, see Test report.
- All site surveying has been carried out using Leica GNSS survey equipment.
- All CAD work has been carried out using AutoCAD Civil 3D 2018.
- All survey and thematic information detailed on this plan has been provided by the Urban Regen Ltd survey team allocated on site.

Survey Information:

Co-ord System:		Co-ord Type:	Primary Survey Control:	Secondary Survey Control:	
OSGB36(15)		Grid	Leica SmartNet	Site	
D	20/05/2022	As-built information updated		DR	SW
C	14/01/2022	As-built information updated		DR	SW
B	13/10/2021	As-built information updated		DR	SW
A	05/10/2021	As-built information updated		DR	SW
Rev	Date	Amendment		Drawn	Checked



Client:	COUNTRYSIDE PROPERTIES						
Project:	Former Belle Vue Dog Track, Kirkmanshulme Lane, Gorton, Manchester						
Title:	As-built topographic survey and constraints Sheet 1						
Scale:	1:250 @ A1	First Issue:	04/10/2021	Drawn:	D Royle	Checked:	S Wilson
Drawing No:	18039-B-CS-140-143 -ABS-DR-003					Revision:	D



Sheet Plan Scale 1:5000

Notes:

Key

- Site boundary
- Major contour
- Minor contour
- Spot level
- Bottom / top of bank
- Plot footprints
- Crushed areas
- CBR test locations (see note 3)
- JKW Burial cells
- Chandos Lay-down area
- CuTex Knotweed barrier

Notes

1. This plan is to be read in conjunction with the associated E3P validation report and other drawings.
2. The residential layout depicted on this plan is extracted from drawing 'ELL-18039-B-C-140-143 *External Works Layout dwg*' supplied digitally by CPPLC.
3. All CBR test were carried out by Murray Rix, see Test report.
4. All site surveying has been carried out using Leica GNSS survey equipment.
5. All CAD work has been carried out using AutoCAD Civil 3D 2018.
6. All survey and thematic information detailed on this plan has been provided by the Urban Regen Ltd survey team allocated on site.

Survey Information:

Co-ord System:		Co-ord Type:	Primary Survey Control:	Secondary Survey Control:	
OSGB36(15)		Grid	Leica SmartNet	Site	
D C B A	20/05/2022 14/01/2022 13/10/2021 09/10/2021	As-built information updated As-built information updated As-built information updated As-built information updated		DR DR DR DR	SW SW SW SW
Rev	Date	Amendment	Drawn	Checked	



Client:	
---------	--

COUNTRYSIDE PROPERTIES

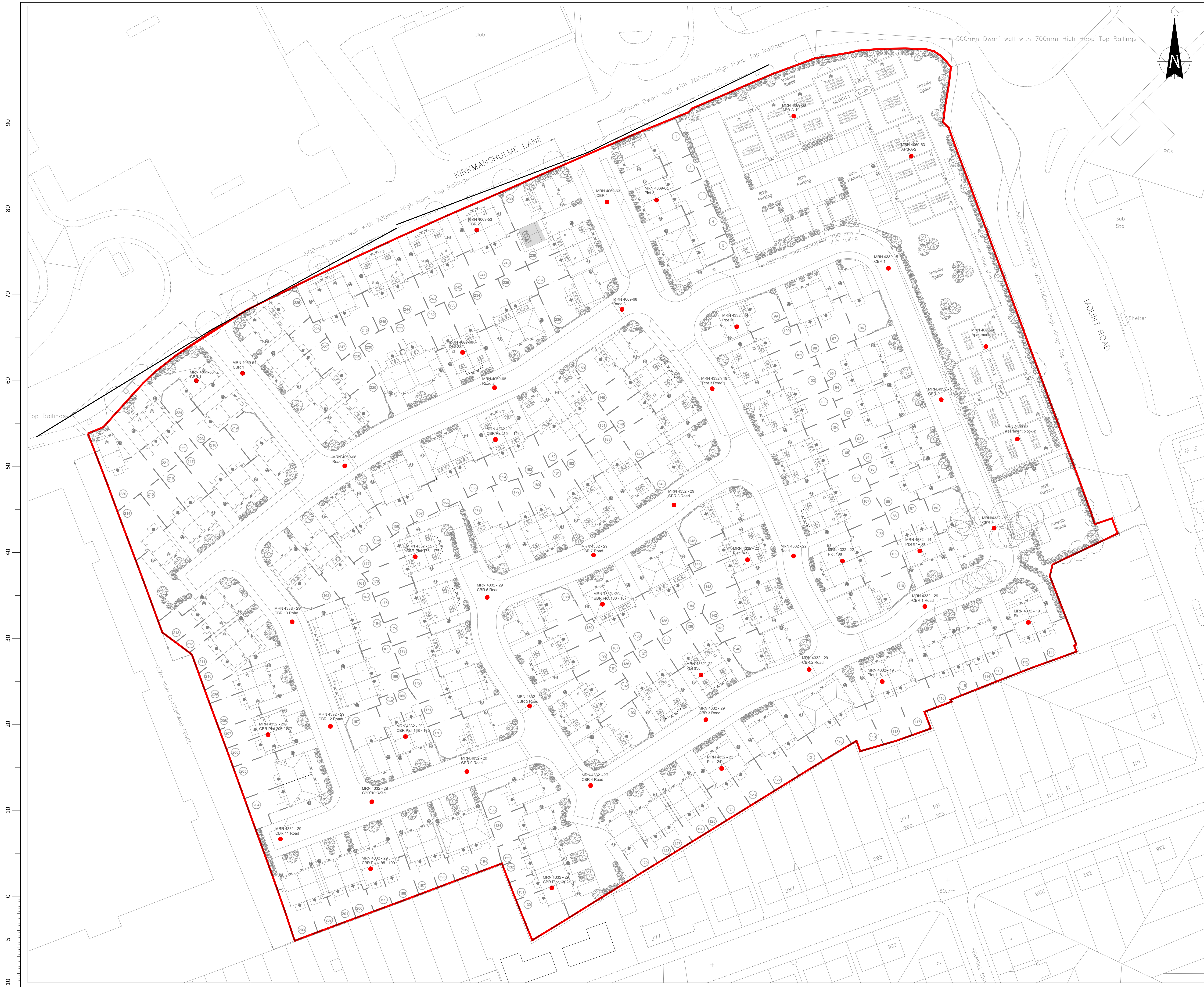
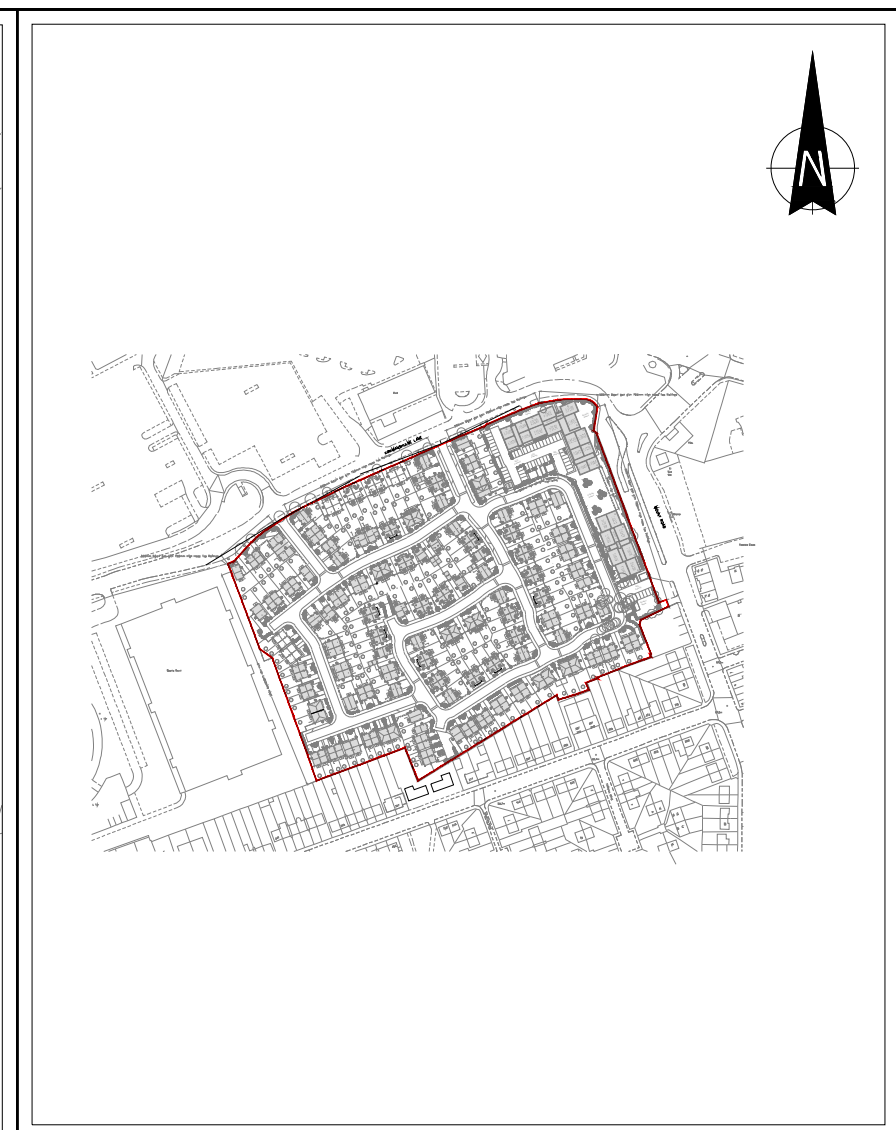
Project:

Former Belle Vue Dog Track,
Kirkmanshulme Lane,
Gorton, Manchester

Title:

As-built topographic survey
and constraints Sheet 1

Scale: 1:250 @ A1	First Issue: 04/10/2021	Drawn: D Royle	Checked: S Wilson
Drawing No: 18039-B-CS-140-143 -ABS-DR-004			Revision: D



Sheet Plan Scale 1:5000

Notes:

Key

Site boundary

CBR test locations (see note 3)

- Notes
1. This plan is to be read in conjunction with the associated E3P validation report and other drawings.
 2. The residential layout depicted on this plan is extracted from drawing 'ELL-18039-B-CS-140-143 External Works Layout dwg' supplied digitally by CPPLC.
 3. All CBR test were carried out by Murray Rix, see Test report.
 4. All site surveying has been carried out using Leica GNSS survey equipment.
 5. All CAD work has been carried out using AutoCAD Civil 3D 2018.
 6. All survey and thematic information detailed on this plan has been provided by the Urban Regen Ltd survey team allocated on site.

Survey Information:									
Co-ord System:			Co-ord Type:		Primary Survey Control:			Secondary Survey Control:	
OSGB36(15)			Grid		Leica SmartNet			Site	



Client:

COUNTRYSIDE PROPERTIES

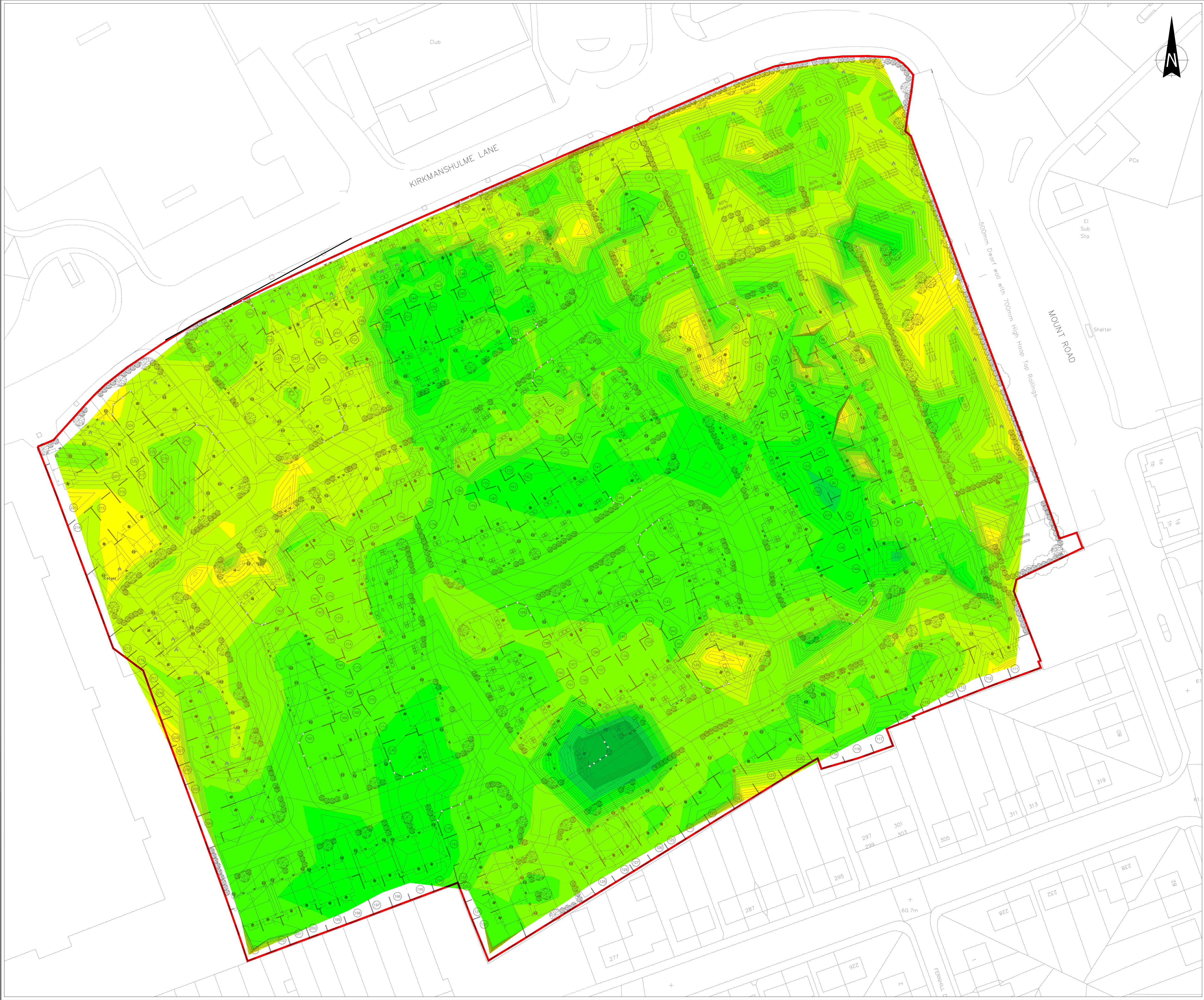
Project:

Former Belle Vue Dog Track,
Kirkmanshulme Lane,
Gorton, Manchester

Title:

CBR Location
Drawing

Scale:	First Issue:	Drawn:	Checked:
1:500 @ A1	20/05/2021	D Royle	S Wilson
Drawing No:			Revision:
18039-B-CS-140-143 -CBR-DR-001			A



Location Plan Scale 1:5000

Notes:

Legend

Site boundary —

Major contour —

Minor contour —

Spot level x60.351

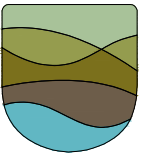
Bottom / top of bank —

Depth of turnover

0m - 0.5m	—
0.5m - 1.0m	—
1.0m - 1.5m	—
1.5m - 2.0m	—
2.0m - 2.5m	—
2.5m - 3.0m	—
3.0m - 4.0m	—

- Notes**
- This plan is to be read in conjunction with the associated E3P completion report and other asbuilt drawings.
 - The residential layout depicted on this plan is extracted from drawing 'ELL-18039-B-CS-140-143 External Works Layout dwg' supplied digitally by CPPLC.
 - The depth of turnover detailed on this drawing is referenced from the flat topographical surface contours as detailed, and the base of excavation as recorded.
 - All site surveying has been carried out using Leica GNSS survey equipment.
 - All CAD has been carried out using AutoCAD Civil 3D 2018.
 - All survey and thematic information detailed on this plan has been provided by the Urban Regen Ltd survey team allocated on site.

Survey Information:			
Co-ord System: OSGB36(15)	Co-ord Type: Grid	Primary Survey Control: Leica SmartNet	Secondary Survey Control: Site
B	28/04/22	Full site added to drawing, Scale change.	
Rev	Date	Amendment	Drawn Checked



Urban Regen
ESTABLISHED 2001

Client:

COUNTRYSIDE PROPERTIES

Project:

**Former Belle Vue Dog Track,
Kirkmanshulme Lane,
Gorton, Manchester**

Title:

Depth of Turnover

Scale: 1:500 @ A1	First Issue: 04/10/2021	Drawn: D Royle	Checked: S Wilson
Drawing No:	Revision:		
18039-B-CS-140-143 -BOT-DR-001			B

Belle Vue, Gorton

UR/BELLEVUE/CF

<u>AREAS (m2)</u>	Total
SITE	48670.3
VIBRO PLOTS +2m	15049.3
STRIP PLOTS +2m	1392.2
PILED PLOTS +2m	4202.8
ROADS +0.5m	6650.5
EXTERNALS	21375.5

<u>VOLUMES (m3)</u>	Cut	Fill
	18842.3	28406
Nett		9563.7



