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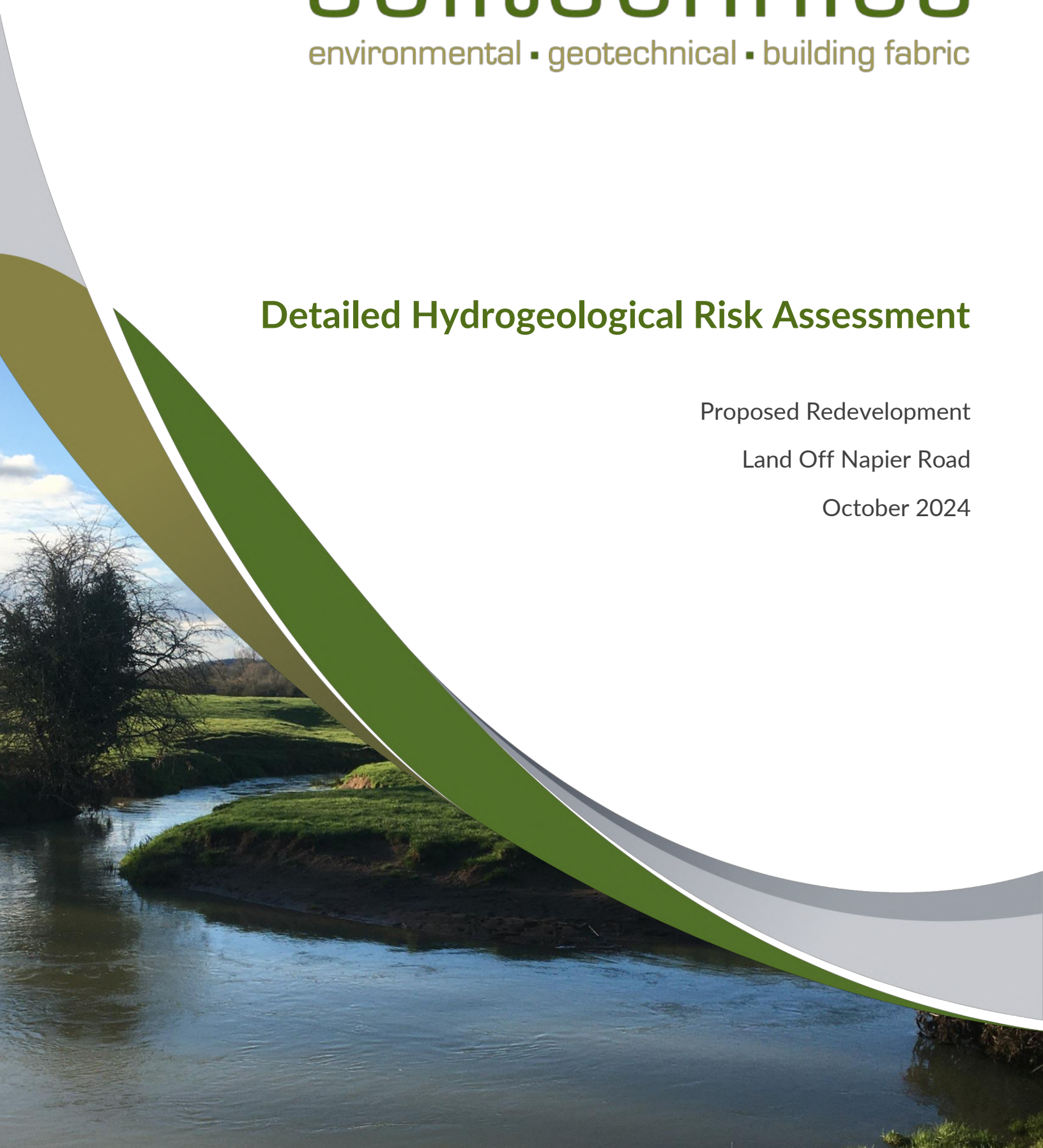
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Detailed Hydrogeological Risk Assessment

Proposed Redevelopment

Land Off Napier Road

October 2024



Project Details

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Table of Contents

1	Introduction	1
1.1	Scheme Outline	1
1.2	Brief	2
1.3	Previous reports	2
1.4	Limitations	3
2	Site Setting and Ground Conditions	4
2.1	Site Description	4
2.2	Site History	5
2.3	Geology	5
2.4	Hydrogeology and Groundwater Sensitivity	7
3	Analysis of IBA material	8
3.1	WAC Analysis	8
3.2	Environmental Assessment Limits	8
3.3	Preliminary EAL Screening	9
4	Detailed Quantitative Risk Assessment	11
4.1	Context	11
4.2	Development Platform Design	11
4.3	Adopted Parameters	11
4.4	Results	16
5	Sensitivity Analysis	17
5.1	General	17
5.2	Discussion	19
6	Consolidation of Existing Landfill	20
6.1	Context	20
6.2	Expected Consolidation	20
6.3	Existing Landfill Materials	20
6.4	Groundwater Monitoring	21
6.5	Assessment	21
7	Conclusion and Recommendations	22
7.1	Conclusion	22
7.2	Landfill Design	22
7.3	Site Specific Compliance Limit	23

Appendix A	Drawings
Appendix B	WAC Testing Results
Appendix C	Geotechnical Test Results
Appendix D	DQRA Input Parameters And Graph Extracts
Appendix E	Ground Stability Report
Appendix F	BH06 Groundwater Chemical Results

List of Tables

Table 1-A:	Summary of previous reports	2
Table 3-A:	EAL Comparison and Selection (mg/l)	9
Table 3-B:	Adopted EALs and Leachate Comparison	9
Table 4-A:	DQRA Adopted Parameters (Phase Area)	12
Table 4-B:	DQRA Adopted Parameters (Infiltration)	12
Table 4-C:	DQRA Adopted Parameters (Cell Geometry)	14
Table 4-D:	DQRA Adopted Parameters (Leachate Inventory)	14
Table 4-E:	DQRA Adopted Parameters (Unsaturated Pathway)	15
Table 4-F:	DQRA Adopted Parameters (Aquifer Pathway)	16
Table 4-G:	LandSim Modelling Results	16
Table 5-A:	Sensitivity Analysis Considerations	17
Table 5-B:	Sensitivity Analysis Outcome	19
Table 6-A:	BH06 Groundwater Monitoring Results	21

List of Figures

Figure 1-A:	Snapshot of proposed development plan	1
Figure 2-A:	Site Topography	4
Figure 2-B:	Topographical Cross Section (North-South)	5
Figure 2-C:	Topographical Cross Section (West-East)	5
Figure 2-D:	Landfill Extents, extracted from STP3966D-D09A.	6
Figure 2-E:	Geological Section (South-North)	7
Figure 4-A:	Ranges of Porosities and Field Capacity for Soils	13

1 Introduction

1.1 Scheme Outline

- 1.1.1 The development is controlled under the North Northamptonshire Council planning regime, under the planning application number NC/21/00072/OUT.
- 1.1.2 The project comprises the redevelopment of land off Napier Road, Rockingham Enterprise Area, Corby, NN17 5DP . Proposals are for the construction of an engineered platform to facilitate the development of a new employment park. The employment park will comprise 13 new commercial units with associated carparking, access roads, soft landscaping. An area along the southern boundary is to be retained as an open mosaic habitat and ecological habitat zone. Two proposed attenuation ponds are proposed in the southeast and southwest corners of the site respectively.
- 1.1.3 The site was formally a liquid waste treatment facility, for which the permit has been surrendered. Additionally, the site is also partially located on a landfill site, which is currently in formal closure. Prior to this, the site was quarried to remove material for use in the Corby Integrated Iron and Steel works.
- 1.1.4 A development platform is required to bring up ground levels to match the surrounding topography. It is estimated that the development platform will be constructed of approximately 686,000m³ of inert clay waste and incinerator bottom ash (IBA) from off-site sources.
- 1.1.5 A proposed layout is presented in Appendix A and an extract is shown below.

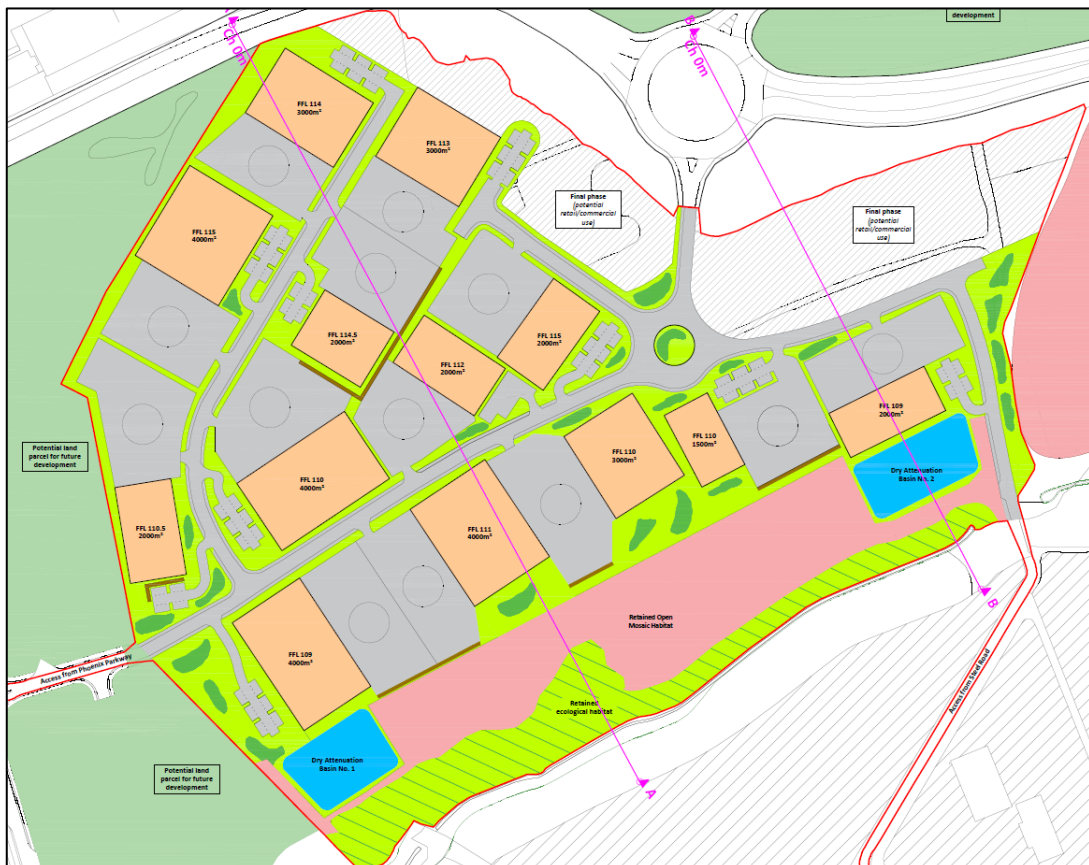


Figure 1-A: Snapshot of proposed development plan

1.2 Brief

- 1.2.1 This report has been prepared following instructions received from Storefield Group Limited. This report provides a Detailed Hydrogeological Risk Assessment (dHRA), to supplement the existing qualitative hydrogeological risk assessment (qHRA) and operational reports to determine whether the use of IBA can be used within the development platform without creating an adversely impacting the quality of controlled waters.
- 1.2.2 The principal aim of this report is to risk assess the use of the IBA material and provide justifiable and evidence-based WAC values for future compliance testing. The compliance criteria presented within this report supersedes those presented within the Operating Techniques document.
- 1.2.3 The hydrological risk assessment will be carried in accordance with the Environment Agency's online guidance on permit applications and risk assessments.

1.3 Previous reports

- 1.3.1 Reference has been made to the following reports in the preparation of this HRA.

Author	Document Title	Date & Document Reference	Area of investigation
Soiltechnics Limited	Preliminary Investigation Report	R-STP3966D-P01 March 2019	Preliminary desk based investigation. Identifying the expected ground conditions and establishing potential pollutant linkages.
Soiltechnics Limited	Ground Investigation Report	R-STP3966D-G01 September 2020	Interpretive ground investigation report detailing ground conditions, identified pollutant linkages and geotechnical constraints.
Wardell Armstrong	Planning, Design and Access Statement	GM11841/REP-005 January 2021	A report providing a general overview of the scheme proposals, context and environmental setting.
Wardell Armstrong	Environmental Statement – Chapter 9: Drainage and Flood Risk Management	GM10604/REP-001 January 2021	The likely significant effects of the proposed development in terms of the drainage and flood risk in the context of the site and surrounding area.
Soiltechnics Limited	Ground Stability Report	R-STP3966D-S01 June 2023	Reporting providing geotechnical appraisal and comment on the geotechnical viability of the scheme.
Firth Consultants	Hydrogeological Risk Assessment	Report fc37266 June 2023	Qualitative hydrogeological risk assessment to assess the risk to controlled waters from the proposed use of inert waste and IBA to create a level development platform
Wardell Armstrong	Waste Recovery Plan	GM11841/REP-002 January 2024	Proposal for development platform to be constructed with waste materials to meet the EA's 'waste recovery test'
Wardell Armstrong	Operating Techniques	GM11841/REP-003 January 2024	A report providing management controls and designs for the site.
Soiltechnics Limited	Groundwater Monitoring and Maintenance Plan	R-STP3966D-LQ-R02 October 2024	Provides the short and long term monitoring strategy for the site.

Table 1-A: Summary of previous reports

1.4 Limitations

- 1.4.1** Soiltechnics disclaims any responsibility to our Client and others in respect of any matters outside the scope of this report. This report has been prepared with reasonable skill, care and diligence in accordance with the terms of our contract, taking account of the resources, investigations and testing devoted to it by agreement with our Client. Soiltechnics accepts no responsibility of whatsoever nature to third parties to whom this report or any part thereof is made known. Any such party relies upon the report at their own risk.

2 Site Setting and Ground Conditions

2.1 Site Description

- 2.1.1 The proposed development lies within land off Napier Road in the Rockingham Enterprise Area, located in the northeast of Corby, Northamptonshire.
- 2.1.2 The postcode for the site is NN17 5DP and the site is accessed from Napier Road to the west. The site covers approximately 20.5 hectares. It is an unused parcel of land previously utilised as an extensive, former quarry and then closed landfill site.
- 2.1.3 The site is situated in the wider Rockingham Enterprise Area and as such, land to the north, east and west of the site is occupied by a mixture of commercial and industrial land use. Historic quarrying and infilling has resulted in a change in topographic levels both on and off site (further discussed in section 2.2).
- 2.1.4 The natural, local topography of the site and surrounding area generally falls to the east culminating at the low point of Willow Brook which forms the sites southern Boundary, as shown in the figure below.



Figure 2-A: Site Topography

- 2.1.5 A topographical north-south and east-west cross section of the existing topography is presented below.

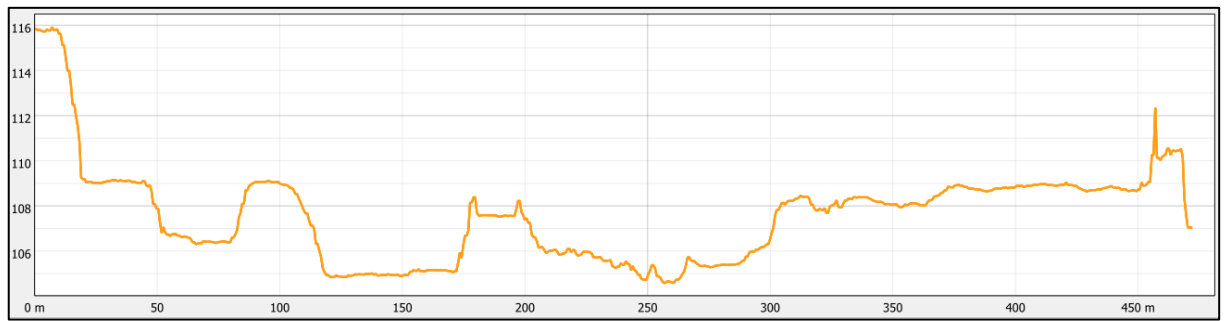


Figure 2-B: Topographical Cross Section (North-South)

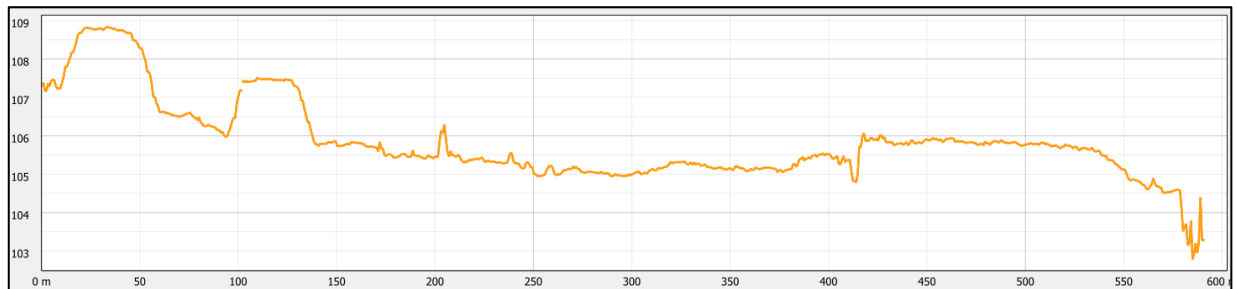


Figure 2-C: Topographical Cross Section (West-East)

2.2 Site History

- 2.2.1 A detailed site history is presented in the ground investigation report produced by Soiltechnics (ref. R-STP3966D-G01) and is summarised below.
- 2.2.2 The area was subject to opencast extraction of the iron rich deposits of the Northampton Sands (as a source of iron ore) in the 1940s / 1950s, forming part of Dene Quarry. Based on encountered ground conditions, the quarry was probably about 14m deep, and typically the 'overburden' soils (comprising Boulder Clays, Limestone and Estuarines) would have been used to backfill the excavation following removal of the iron ore. The grey green sandstone below the ironstone which typically had little iron content was generally left in place.
- 2.2.3 Subsequent to quarrying activities, the southern part of the site was occupied by Candy filter sludge ponds, with North brook lagoons to the east, associated with adjacent steel works. These ponds / lagoons were licenced by the British Steel Corporation in the mid-1980s to receive industrial and special waste, and liquid sludge.
- 2.2.4 Records show the site was occupied by waste management facilities licenced to Corby Borough Council, Corus UK Ltd, and Tata Steel, between the mid-1980s until around 2010. These facilities included management of industrial and household wastes. It is understood that the lagoons were emptied by Tata Steel in recent years.

2.3 Geology

- 2.3.1 Broadly, the underlying geology comprises infilled ground overlying the Northampton Sand Formation (sandy ironstone) which in turn overlies the Whitby Mudstone Formation (mudstone and siltstone).

- 2.3.2 Landfill material in the north of the site was encountered to a maximum depth of 0.80 m bgl and comprised suspected flue dusts, coke fines, slag and refractory rubble. Suspected blast furnace materials were encountered in the east from 2.0 m bgl. Reworked natural soils comprising a mixture of Glacial Till and Grantham Formation was encountered beneath the landfill material in the northern half of the site to depths of between 12.0 to 16.0 m bgl. Such Made Ground was recovered as grey, gravelly clay, creamish brown clayey, gravelly sand or gravelly clay or orange brown gravelly sands with frequent cobbles and boulders of sandstone.
- 2.3.3 Landfill material within the extent of the southern landfills extended to approx. 10 m depth and comprised sand, gravel and clay soils combined with variable content of limestone, concrete, brick, timber, metal, plastic, fabric, clinker and ash.
- 2.3.4 The Northampton Sand Formation was encountered from 10.50 m bgl with a thickness ranging from 0.6-2.9 m. The Whitby Mudstone was encountered at depths from 12.8-15.1 m bgl.
- 2.3.5 The figure below shows the approximate extent of the landfill cells on site.

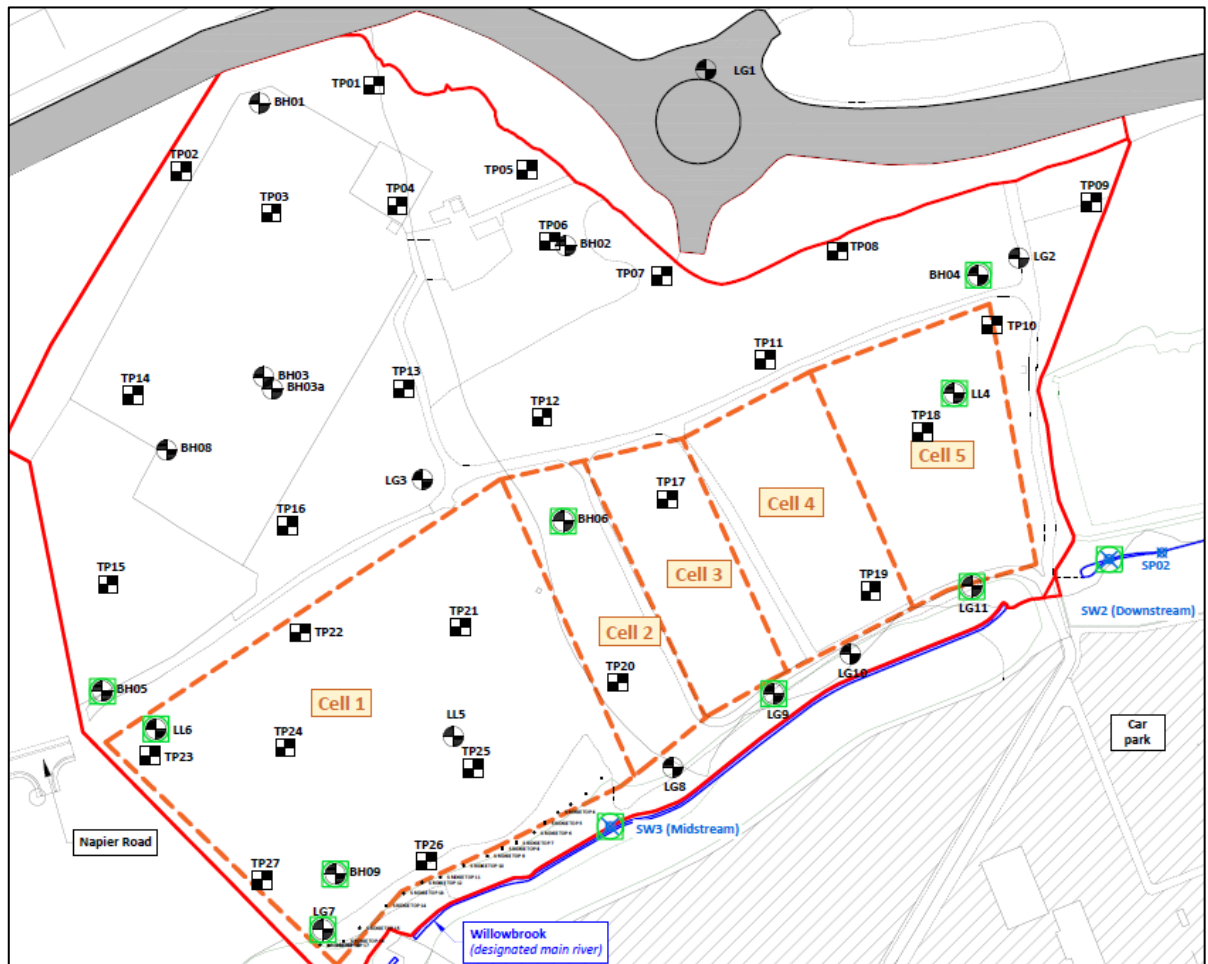


Figure 2-D: Landfill Extents, extracted from STP3966D-D09A.

- 2.3.6 A generalised geological cross section is presented within the qHRA, and extracted below for reference. However, it should be noted the section does not distinguish between existing landfill wastes and reworked natural soils, with both generically classified as Made Ground in the figure.

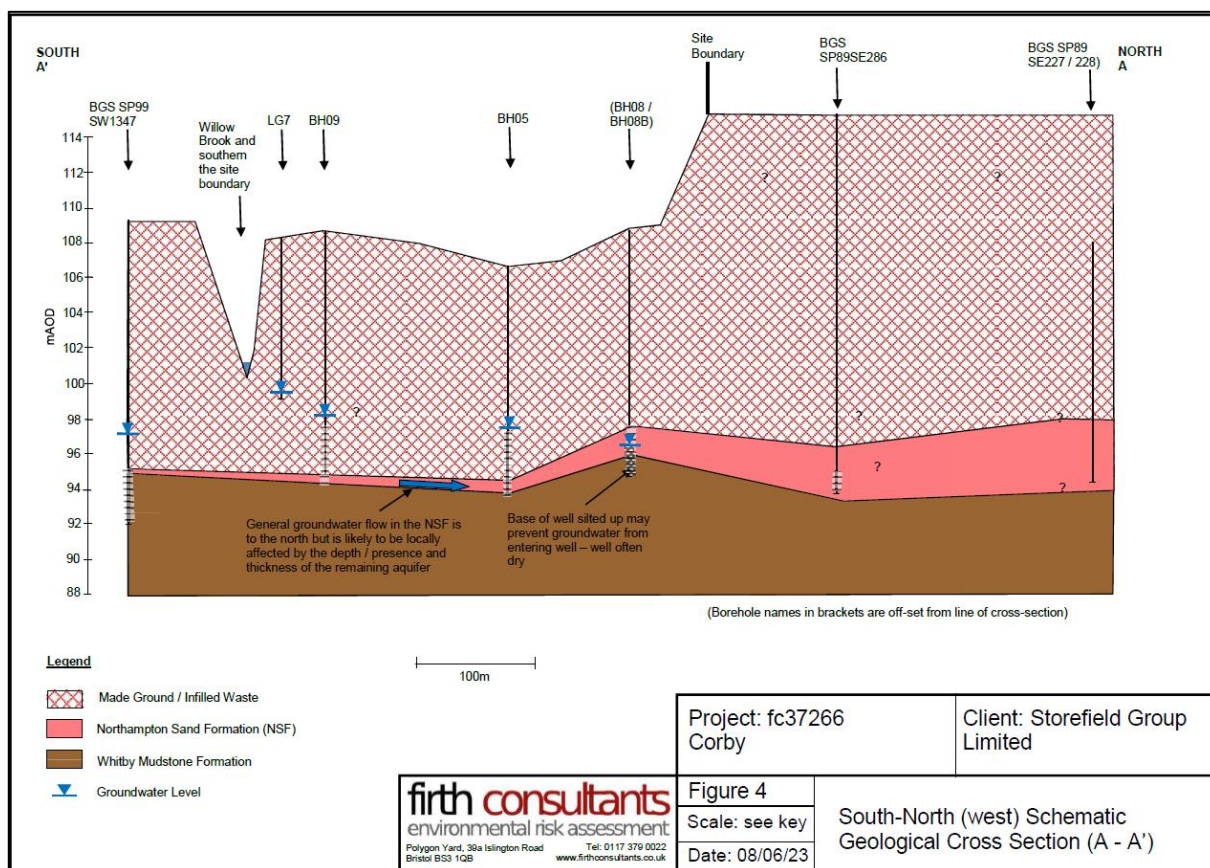


Figure 2-E: Geological Section (South-North)

2.4 Hydrogeology and Groundwater Sensitivity

- 2.4.1 The Northampton Sand Formation is designated as a Secondary A Aquifer. And the underlying Whitby Mudstone Formation is classified as unproductive strata.
- 2.4.2 The maximum proven thickness of the Northampton Sand Formation encountered on site is 2.90 m. Outside of the site's boundaries, the BGS records indicate the Northampton Sand Formation is typically less than 5.0 m in thickness.
- 2.4.3 The site is not located within a Source Protection Zone. There are no groundwater abstraction licenses held down-gradient of the site within 2km.
- 2.4.4 Willow Brook is located adjacent to the southern boundary of the site and flows easterly where it becomes the River Nene over 2km northeast of the site. The wider catchment area of the watercourse is classified as moderate for ecological and fail for chemical quality. There are no active licensed surface water abstractions within 2km of the site.
- 2.4.5 The groundwater flow direction is discussed in the qHRA, where flow direction is shown to be towards the north. The report also highlights that the elevation of the adjacent brook is higher than the underlying groundwater, indicating the groundwater does not discharge into the nearby watercourse, conversely the brook is likely to lose water to ground. The nearest plausible point of groundwater discharge was identified as being 1.3km northeast.
- 2.4.6 Both the Secondary A Aquifer in the Northampton Sands and down-gradient surface watercourses are considered key receptors in the assessment.

3 Analysis of IBA material

3.1 WAC Analysis

3.1.1 Six rounds of Waste Acceptance Criteria (WAC) testing has been undertaken on the IBA material proposed for use within the development platform, with an overall 7 samples, the results are presented in Appendix B.

3.1.2 Results indicate exceedances above the inert threshold criteria for the following contaminants.

- Antimony,
- Chloride,
- Sulphate
- Total dissolved solids (TDS)

3.1.3 Antimony, chloride, sulphate and TDS are not designated as Hazardous or Priority Substances.

3.1.4 All other contaminants are below inert WAC thresholds.

3.2 Environmental Assessment Limits

3.2.1 Where contaminants are below inert criteria, no further assessment has been undertaken, as inert waste is defined as materials which do not undergo significant physical, chemical or biological transformations, do not give rise to environmental pollution or harm, and which have a total leachability and pollutant content which does not endanger water quality.

3.2.2 No Hazardous or Priority Substances have been detected above the inert WAC values, and therefore minimum reporting values (MRVs) or background groundwater concentrations have not been utilised for establishing Environmental Assessment Limits (EALs).

3.2.3 For non-hazardous substances, the EALs have been selected by considering applicable UK Drinking Water Standards (DWS) and Environmental Quality Standards (EQS), taking the lesser of the two as a conservative approach. Generally, both DWS and EQS values are precautionary in risk assessment terms, as they are derived for use at the point of the receptor (i.e. at the consumer's tap, or a surface waterbody).

3.2.4 A UK, European or US EPA EQS (or equivalent) value is not available for antimony, so a further comparison has been made against drinking water values published by the World Health Organisation (WHO). A search of the internet did not reveal any recent international screening values designed to be protective of aquatic life in surface water, except for a published value in British Columbia (province of Canada), where a recent 2023 document provides a threshold of 74 µg/l.

3.2.5 Total Dissolved Solids is an indicator parameter, measuring the combined content of all dissolved substances present. It is therefore not plausible to model behaviour, attenuation, or risk profile of this parameter, as the composition is unknown and variable. Total Dissolved Solids is therefore excluded from the quantitative assessment.

3.2.6 The EALs selection summary is provided in the table below.

Contaminant	EQS	British Columbia EQS	UK DWS	WHO DWS	Adopted EAL
Antimony	N/A	0.043	0.005	0.02	0.005
Chloride	250	-	250	-	250
Sulphate	400	-	250	-	250
TDS	N/A	-	N/A	-	N/A

Table 3-A: EAL Comparison and Selection (mg/l)

- 3.2.7 For sulphate and chloride both the EQS and drinking water standard are comparatively similar, so a high level of confidence can be had in selecting the lower threshold as the EAL.
- 3.2.8 For antimony, there is a variance by a factor of 10, both between international and national DWS values and between the available (Canadian) EQS and UK DWS. As the Northampton Sands aquifer is <5m thick and has no abstraction licenses drawing from it, the UK drinking water standard is likely to be a highly precautionary EAL; however, it has been adopted for modelling purposes to provide a conservative assessment. The adoption of the lowest threshold value also serves to protect both groundwater and surface water bodies as potential receptors.

3.3 Preliminary EAL Screening

- 3.3.1 The table below presents all leachate results obtained to date on the proposed IBA material against the adopted EAL values. For comparison, the next highest screening value for antimony is also presented (the WHO drinking water standard). Exceedances are shown in **bold**, all values are in mg/l.

Contaminant	EAL	21/8/23 (1)	21/8/23 (2)	01/12/23	5/1/24	19/1/24	2/2/24	15/3/24
Antimony (EAL)	0.005	0.029	0.043	0.022	0.025	0.014	0.0048	0.022
Antimony comparison (BC EQG)	0.043	0.029	0.043	0.022	0.025	0.014	0.0048	0.022
Chloride	250	100	230	140	240	130	150	160
Sulphate	250	140	220	57	180	18	2.3	76

Table 3-B: Adopted EALs and Leachate Comparison

- 3.3.2 Leachate analysis for both chloride and sulphate have not recorded any exceedances above the adopted EAL criteria. The leachable contaminants are below threshold values at the source (IBA material within proposed development platform), and infiltration of rainwater during placement of the material will lead to further dilution. It is therefore not plausible for unacceptable elevated levels of chloride or sulphate to leach and migrate to the underlying aquifer within the Northampton Sand Formation and cause an unacceptable adverse impact to groundwater quality or other water receptor.
- 3.3.3 As leachate levels of chloride and sulphate are below the adopted EAL, and both drinking water and surface water standards, it has been excluded from any further DQRA modelling, as attenuation and dilution mechanisms do not require further consideration.

- 3.3.4 The EAL for antimony has been exceeded within 6 of the 7 leachate samples, along with 5 of them exceeding the less stringent WHO drinking water guidelines. In comparison with the British Columbia EQS (equivalent) value, none of the laboratory results exceed the threshold, with one matching it.
- 3.3.5 Due to exceedances of the EAL, the use of IBA therefore poses a potential risk to controlled waters receptors. In order to determine if the IBA is suitable for use in the development platform, a DQRA is required to investigate the whether the elevated antimony has the potential to migrate at significant concentrations to the identified receptors, and therefore establish site specific import thresholds.

4 Detailed Quantitative Risk Assessment

4.1 Context

- 4.1.1 Chloride, sulphate and antimony have been shown to exceed inert waste criteria.
- 4.1.2 Chloride and sulphate are below adopted EAL values, and therefore no further quantitative assessment is required. The EALs for chloride and sulphate can be adopted as the compliance criteria for the IBA material without taking into account attenuation and dispersion.
- 4.1.3 Antimony has been identified as the only contaminant exceeding both inert and EAL values. Further detailed modelling needs to be undertaken to determine if the importing of the material to construct a development platform poses an unacceptable risk to water receptors.
- 4.1.4 The following sections provides an account of the detailed quantitative risk assessment carried out utilising the LandSim 2.5 modelling software.

4.2 Development Platform Design

- 4.2.1 LandSim modelling is programmed around the design of a landfill site. Many parameters within the software do not apply to the context of this site. The following elements are key design aspects for the proposed development platform.
- A low permeability clay cap will be put over the development platform, with a minimum thickness of 1m.
 - The development platform is designed to be freely draining into the underlying soils. No engineered base layer is proposed. No engineered side walls or bunds are proposed.
 - A visual, permeable marker layer, e.g. a geotextile, or geogrid, will be placed between the historic landfill materials and proposed imported materials for the development platform. The barrier is to provide a visual separation between permitted materials, and is not designed to have any engineering benefit.

4.3 Adopted Parameters

- 4.3.1 The following table summarises the parameters used within LandSim to model the attenuation of leachate within the unsaturated zone and at the compliance point, drawing upon information discussed previously within this report and presented within the qHRA. They are also outlined within the DQRA input parameters and results in Appendix D.
- 4.3.2 Phase area**
- 4.3.2.1 The phase area has been based on the full extent of the proposed development platform.
- 4.3.2.2 Within the LandSim model groundwater flows along the x axis and therefore the site has been reoriented to reflect this.
- 4.3.2.3 The adopted approach takes a conservative assessment that IBA waste is placed across the full development platform. The development platform is also likely to comprise of acceptable inert wastes, and therefore the adopted parameters present a worst-case scenario.

Parameter	Value	Comment
Length (X axis) (m)	400	Length of proposed development platform in N-S orientation (direction of groundwater flow). Width orientated E.W.
Width (Y axis) (m)	600	Worst case, based on full site dimensions. IBA may only be used for partial build-up, with inert wastes being used elsewhere.
Time offset (years)	0	The time offset set to 0 as the model only includes one phase
Duration of management control (years)	6	Based on assumed filling period of 4 to 7 years. Management control will be limited (e.g. no active leachate extraction). LandSim does not accept a value lower than the filling period.

Table 4-A: DQRA Adopted Parameters (Phase Area)

4.3.3 Infiltration

- 4.3.3.1 While the waste is being imported to site and placed to create the proposed development platform, it is conservatively assumed that 100% of average annual rainfall will infiltrate through the waste material.
- 4.3.3.2 The loss due to evaporation and runoff has not been accounted for.
- 4.3.3.3 Infilling is programmed to take between 4 to 7 years, including the placement of an impermeable 1 m thick clay cap. In accordance with the drainage strategy, the clay cap is to be sloped to drain surface water to the attenuation ponds below the development platform to the south.
- 4.3.3.4 Bonaparte et al.'s report on *Assessment and Recommendations for Improving the Performance of Waste Containment Systems* (EPA/600/R-02/099, 2002) estimates that infiltration rates following the placement of a clay cap range from 0.2% to 4% of annual average rainfall with an average at 1%. These values have been halved, as the proposed development also includes extensive hardstanding cover and a drainage system which captures surface water and discharges it to attenuation ponds below the proposed fill material, thereby limiting any potential infiltration through the clay cap.
- 4.3.3.5 For long term infiltration (i.e. through the cap), a further consideration has been made for three climate change scenarios ranging from -10%, +20% to +40% of average annual rainfall respectively.

Parameter	Value	PDF	Comment
Infiltration to open waste (mm/yr)	Min: 454 Average: 609 Max: 810	Triangular	Average annual rainfall based on met office records. Minimum and maximum yearly rainfall based on records for East Anglia region (similar climate to Corby) over the last 30 years.
Cap design infiltration (mm/yr)	Min: 0.415 Average: 3.65 Max: 22.52	Triangular	0.1%, 0.5% and 2% of minimum, average and annual rainfall respectively. Further adjustment for climate change as detailed in the text above. Based on Bonaparte (2002) and adjusted for hardstand cover and drainage system.
End of filling (years)	6	Single	Based on assumed filling period of 4 to 7 years. Adjustable in sensitivity assessment
PE cap	None	N/A	No proposed PE cap

Table 4-B: DQRA Adopted Parameters (Infiltration)

4.3.4 Cell Geometry

- 4.3.4.1 As defined within the LandSim model the length and width of the base of the landfill must be less than the length and width at the top. The basal length and width have been based on the local topographic variation, as shown from LIDAR profile data, and the proposed conceptual site model included in drawing D-STP3966D-06 in Appendix A. An overall reduction in width and length of 75m was estimated.
- 4.3.4.2 The proposed final level for the development platform ranges from 1 to 8 m above the current ground level. With the inclusion of a clay cap within the top 1 m of the development platform this reduces the thickness of waste to between 0.1 and 7 m.
- 4.3.4.3 The particle size distribution and bulk density of the IBA has been determined from laboratory testing, see Appendix C, results show the IBA range from a gravelly sand to a sandy gravel.
- 4.3.4.4 The waste porosity has been based on values published in the 2017 paper 'Porous Structure of Municipal Solid Waste Incineration Bottom Ash in Initial Stage of Landfill' by Sakita *et al.* This is also consistent with the estimated values for compact sand and gravel mixtures presented in *Verification of porosity predictors for fluvial sand-gravel deposits* (Water Resource Research, 2011).
- 4.3.4.5 The field capacity of the waste is based upon the following graphic presented in Physical Hydrology (Dingman, 2/E, 2002). A conservative approach has been adopted assuming a sand material.

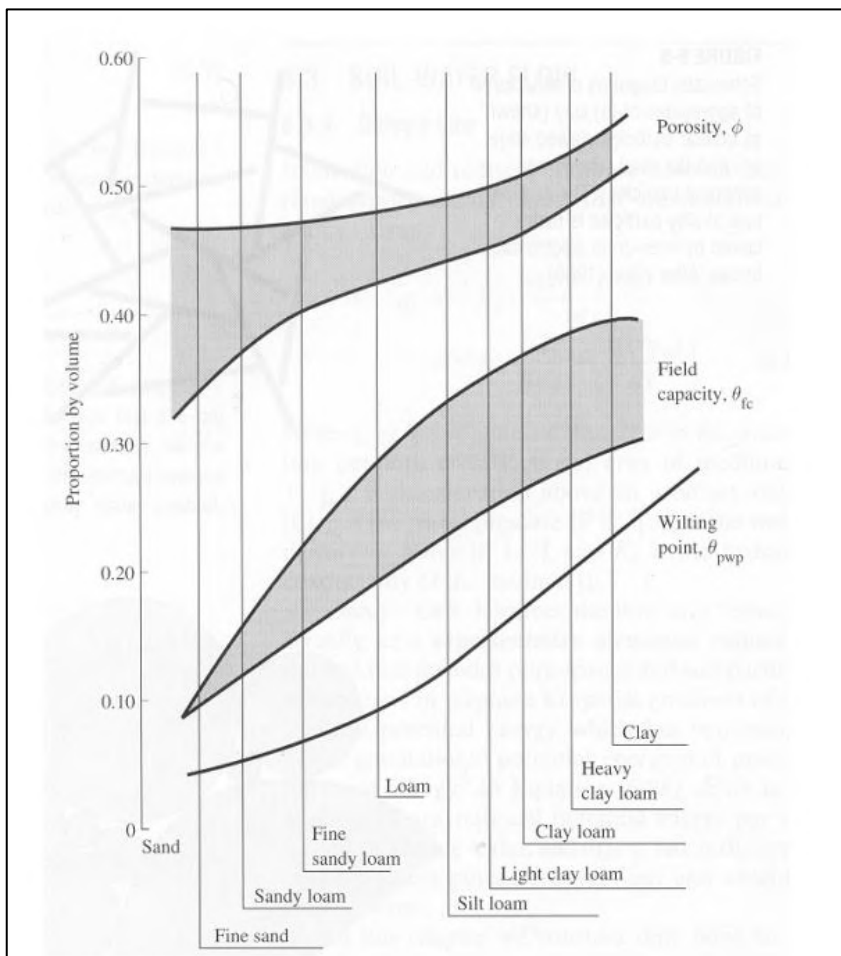


Figure 4-A: Ranges of Porosities and Field Capacity for Soils

Parameter	Value	PDF	Comment
Length at base (m)	325	Single	Based on drawing D-STP3966D-06 and lidar data.
Width at base (m)	525	Single	Based on drawing D-STP3966D-06 and lidar data.
Final waste thickness (m)	Min: 0.1 Average: 4 Max: 7	Triangular	Proposed thickness of development platform is 2-8 m with 1 m clay cap at top.
Waste Porosity (fraction)	Min: 0.324 Max: 0.397	Uniform	Based Sakita et al. (2017) of 0.361 +/- 10%. Water Resource Research (2011) also presents a value of between 0.36 for closely packed sands and gravels which supports this figure.
Waste dry density (kg/l)	Min: 1.30 Max: 1.68	Uniform	Testing results on IBA material included in Appendix B
Waste field capacity (fraction)	Min: 0.1 Max: 0.2	Uniform	Typical waste field capacity of a sandy gravels and gravelly sands based on the above figure

Table 4-C: DQRA Adopted Parameters (Cell Geometry)

4.3.5 Leachate Inventory

4.3.5.1 Leachate analysis from the six rounds of WAC testing as discussed in section 5 has been used for input concentrations of Antimony.

Contaminant	Concentration (mg/l)	PDF	Kappa Value Constants		Half Life (years)	Unsaturated Pathway Half Life (years)	Comment
			m (kg/l)	c (kg/l)			
Antimony	Min: 0.0048 Average: 0.0218 Max: 0.043	Triangular	0.0763	-0.1303	10	1e+099	Results from WAC testing. Kappa values taken from Landsim 2.5 Manual Addendum Default half lives used

Table 4-D: DQRA Adopted Parameters (Leachate Inventory)

4.3.6 Drainage

4.3.6.1 There is no proposed drainage design and therefore no drainage has been included within the LandSim model. Leachate is proposed to freely drain into the underlying materials.

4.3.6.2 Based upon the permeability of the underlying soils and average annual rainfall, no significant leachate build up or runoff is expected.

4.3.7 Engineered Barrier

4.3.7.1 There is no engineered barrier within the proposed design of the development platform and therefore the no EBS option has been selected within the LandSim model.

4.3.8 Unsaturated Pathway

4.3.8.1 Due to the variable depth of Made Ground and groundwater fluctuations, the groundwater table is located both within the base of the Made Ground and the upper Northampton Sands Formation on site. The unsaturated zone is therefore the Made Ground and landfill deposits underlying the proposed development.

- 4.3.8.2 Groundwater monitoring data collected by Soiltechnics between 2022 and 2024 has been used to calculate the pathway length. This equates to existing ground level (or depth from top of unsaturated zone) to groundwater level. The data has been collected across a long time period and varying climatic conditions and is therefore considered to represent the seasonal variation in the groundwater.
- 4.3.8.3 Moisture content testing results from samples of underlying landfill material collected as part of the 2020 Soiltechnics Ground Investigation have been used to determine moisture content of the unsaturated pathway.
- 4.3.8.4 Ground investigation works encountered variable conditions, predominantly low permeability clays, but ranging to gravels and sands with relatively high fine content. The hydraulic conductivity of the landfill material will be variable and will not fit a triangular distribution. A permeability range from 1×10^{-05} to 1×10^{-10} m/s at a log uniform distribution has therefore been adopted.
- 4.3.8.5 To model retardation within the unsaturated zone, the partition coefficients published by USEPA *Partition Coefficients For Metals In Surface Water, Soil And Wastes* (1999) have been used. The inverse log of minimum, mean and maximum have been calculated to model a log triangular distribution.

Parameter	Value	PDF	Comment
Geological Unit	N/A	N/A	Former landfill and reworked natural soils.
Pathway length (m)	Min: 8.32 Average: 10.50 Max: 14.44	Triangular	Distance of top of current ground level to groundwater. Taken from Soiltechnics monitoring data.
Moisture content (fraction)	Min: 0.092 Average: 0.121 Max: 0.152	Triangular	Moisture content results of Made Ground soils from Soiltechnics' 2020 ground investigation.
Hydraulic Conductivity (K)	Min: 1×10^{-10} Max: 1×10^{-5}	Log Uniform	Highly variable. Conservative assessment, as visual descriptions indicate predominantly fine grained materials. Field testing not valuable due to expected variability and low result validity.
Retardation (Kd)	10^{min} : 1.26 10^{average} : 251 10^{max} : 501	Log Triangular	Values published by USEPA.

Table 4-E: DQRA Adopted Parameters (Unsaturated Pathway)

4.3.9 Vertical Pathway

- 4.3.9.1 The existing landfill material (unsaturated pathway) directly overlies the Northampton Sand Formation (aquifer pathway) and therefore, no vertical pathway has been included in the LandSim model.

4.3.10 Aquifer Pathway

- 4.3.11 The underlying Northampton Sand Formation is a designated Secondary A Aquifer and has therefore been included as the aquifer pathway within the model. This overlies the Whitby Mudstone Formation which is designated as Unproductive Strata and has therefore not been included in the model.

4.3.12 The Northampton Sand Formation underlies the entirety of the site and therefore the pathway width is the width of the site. The mixing zone thickness is the maximum thickness of the Northampton Sand encountered during ground investigation.

4.3.13 The conductivity, regional gradient, and pathway porosity are detailed in the Firth Consultants qHRA.

Parameter	Value	PDF	Comment
Geological Unit	N/A	N/A	Northampton Sand Formation
Pathway width (m)	600	Single	Aquifer underlays the whole site
Mixing Zone Thickness (m)	2.9	Single	Maximum thickness of NSF encountered. Based on intrusive investigation work.
Conductivity (m/s)	0.22	Single	See qHRA. Based on in-situ field test result.
Regional Gradient	0.02	Single	See qHRA, based on monitoring data and topography.
Pathway Porosity (fraction)	0.2	Single	See qHRA, based on literature values.
Compliance Point (m)	10	Single	Default LandSim value.

Table 4-F: DQRA Adopted Parameters (Aquifer Pathway)

4.4 Results

4.4.1 The DQRA model sheets are presented in Appendix D. All modelling has been generated based on 1,001 iterations.

4.4.2 The results of the groundwater modelling are presented below, with the average concentration (50th percentile) shown to provide the most likely groundwater impact, and 90th percentile shown to provide an upper limit where we can have a high degree of confidence the leachate/groundwater will not exceed these values.

Compound	EAL	Peak concentration at base of unsaturated zone (µg/l)		Peak concentration at compliance point (µg/l)	
		Most likely (50 th %ile)	90 th %ile	Most likely (50 th %ile)	90 th %ile
Antimony	5 µg/l	4 x 10 ⁻⁴ µg/l	4.19 µg/l	4 x 10 ⁻⁴ µg/l	3.31 µg/l

Table 4-G: LandSim Modelling Results

4.4.3 As shown in the above table, at a 90% confidence level, the modelled concentrations of antimony at the base of the unsaturated zone and the off-site compliance point do not exceed the adopted EAL. It is also worth noting the adopted EAL was the most conservative risk based screening value available for both drinking and surface waters.

4.4.4 Based upon this outcome, it is considered that there is no significant risk from the proposed deposition of IBA material to groundwater quality in the vicinity of the site.

4.4.5 Based on the environmental setting and the low risk of the waste materials that will be deposited, active long term site management will not be necessary in order to prevent long term groundwater pollution.

5 Sensitivity Analysis

5.1 General

5.1.1 Sensitivity analysis has been carried out using alternative parameters to provide a better understanding of the modelling, and to explore the effect of adopted model values where literature values have been used in the modelling or where uncertainty exists in the site derived data.

5.1.2 The following table presents a review of the data parameters and assumptions used.

Topic	Adopted Parameters	Sensitivity Analysis Comment
Phase area & cell geometry	Worst-case values adopted, assuming IBA waste is placed across the full development platform.	Sensitivity analysis would likely provide a betterment of the outcome, which already indicates low risk.
Infiltration (open waste)	Does not account for loss by evaporation or runoff. Uses meteorological data over the last 30 years.	High confidence, as data is based on an extensive dataset. Fill period is relatively short, so climate change consideration not required. Consideration of effective infiltration would provide betterment. No modelling necessary.
Infiltration (closed waste)	Adopts climate change parameters of up to +20% rainfall. Assumes minimal infiltration through the cap, based on a combination of literature values of clay cap effectiveness in landfills and 50% loss of infiltration through positively drained hardstanding.	High confidence. The modelled 50% loss of rainfall to drained hardstanding is highly conservative, as the proposed development over the construction platform (see Figure 1-A) is approximately 80% hardstanding. This ~30% overestimate serves to account for leaks and deterioration in the drainage network and clay cap which may develop over time. A 20% increase in infiltration is already accounted for due to potential climate change impacts.
Infiltration (period of filling)	Single value entered, based on 6 years Filling expected to be 4 years.	The programme of works is 4 years; however, slippage may occur and has been estimated to be up to 7 years. Infiltration through the open waste is a high risk period for controlled waters due to higher levels of leachate. The full range of likely filling periods should be considered, along with a further extended period in the event of significant programme delays.
Cell geometry (physical behaviour)	Largely based on geotechnical laboratory testing at source, and literature values on the behaviour of IBA.	High confidence on most adopted parameters. Waste field capacity is likely to be an over-estimate. Consideration should be given to this in sensitivity analysis.
Leachate Inventory	Concentrations based on 7 results.	Relatively limited dataset; however maximum and minimum results are within one order of magnitude from each other. Sufficient confidence can be given due to the outcome of the assessment. Compliance testing will continue for the importing of wastes.
Unsaturated pathway	Parameters based on intrusive investigation data, except for conductivity.	The unsaturated pathway is of variable composition, and observed to be predominantly fine grained. Consideration should be given further to both higher and lower hydraulic conductivities.
Aquifer pathway (hydrogeology)	Parameters based on field testing, LIDAR data and literature values.	High confidence. The Northampton Sands is a relatively uniform aquifer of known composition and adopted parameters are well justified.
Aquifer pathway (compliance point)	Conservative, based on 10m	The Secondary A Aquifer is thin, and of poor resource value. An extending of the compliance point could be considered.

Table 5-A: Sensitivity Analysis Considerations

5.1.3 For the baseline scenario above, a conservative and precautionary approach has generally been adopted for parameter selection, and is considered to be a realistic worst-case scenario. However, some elements of uncertainty have been identified which should be considered further for sensitivity analysis, these include:

- **Scenario 1: Reduced use of IBA**
Decreased volume, thickness and footprint of IBA material within development platform, as inert wastes are also expected to be used.
- **Scenario 2: Extended period of filling:**
To include realistic best and worst case scenarios of 4–7 years and significant programme slippage.
- **Scenario 3: Compliance point**
To include a further compliance point due to low groundwater sensitivity
- **Scenario 4: Waste field capacity**
To include a lower value, as adopted waste field capacity may be an overestimate.
- **Scenario 5: Unsaturated pathway variability**
To include lower and higher hydraulic conductivity parameters

5.1.4 The table below summarises the adjusted input parameters for each of the scenarios and the resulting concentrations at the unsaturated zone and compliance point.

5.1.5 Due to the inherent variability within the model, even at 1,001 iterations, changes at <10% have not been specified. A percentage change of less than 10% is considered negligible

Parameter	Parameter Adjustment	Peak at base of unsaturated zone (90 th % confidence) (µg/l)	% Change	Peak at compliance point (90% confidence) (µg/l)	% Change	Exceedance of EAL? (5 µg/l)
Baseline	-	4.19	-	3.31	-	No
Scenario 1						
Top length (m)	300					
Top width (m)	400					
Base length (m)	225					
Base width (m)	325	3.01	- 28%	1.57	- 53%	No
Final waste thickness (m)	Min: 0.1 Average: 2 Max: 3.5					
Scenario 2						
End of filling (years)	4	3.89	- < 10%	3.25	- < 10%	No
	7	4.34	+ < 10%	3.69	+ 11%	
	10	6.31	+ 51%	6.20	+ 87%	
Scenario 3						
Distance to compliance point (m)	500 (further)	3.77	- 10%	3.29	- < 10%	No
Scenario 4						
Waste field capacity	0.05, 0.15 (lower)	3.98	- < 10%	3.34	+ < 10%	No

Parameter	Parameter Adjustment	Peak at base of unsaturated zone (90 th % confidence) (µg/l)	% Change	Peak at compliance point (90% confidence) (µg/l)	% Change	Exceedance of EAL? (5 µg/l)
Scenario 5						
Unsaturated pathway	1e-8, 1e-5 (faster)	6.53	+ 56%	5.96	+ 80%	Yes
hydraulic conductivity	1e-10, 1e-7 (slower)	3.16	- 25%	2.56	- 23%	No

Table 5-B: Sensitivity Analysis Outcome

5.2 Discussion

- 5.2.1 Model outputs for all alternative scenarios have shown peak antimony concentration levels do not exceed the EAL value within the unsaturated zone or underlying Northampton Sand Formation, except for a 10 year filling period in sensitivity scenario 2 and increased hydraulic conductivity of the existing landfill in scenario 5.
- 5.2.2 Analysis of graph extracts from within the model indicate that peak concentrations are driven by the assumed 100% infiltration rates during the filling period. This is shown by the sharp increase in concentrations at circa 100 years after the filling period. The installation of the clay cap, hardstanding and drainage, reduces infiltration, driving the slow decrease in antimony concentrations as shown on the graphs.
- 5.2.3 The assumed 100% infiltration through open waste during the filling period is likely to be highly conservative as it does not take into account run-off, interception, evaporation and other losses. It is also worth noting that the partial and incremental installation of the clay cap cover is likely to occur during the fill period in areas which reach their final height, as opposed to leaving the full site area of waste open until fill completion. Therefore a 100% infiltration occurring throughout the fill period is likely to be a over-estimation.
- 5.2.4 A 10 year fill period is also highly unlikely to occur, with the programmed works planned to take 5 years to complete, with a expected programme variation of 4 to 7 years total.
- 5.2.5 Model scenario 5 has shown exceedances with an increase in hydraulic conductivity of the unsaturated zone, with conductivity similar to those expected of gravelly sands. Whilst the unsaturated zone is likely to be variable, the composition of both the Made Ground and landfill materials was predominantly fine grained, often dominated by reworked clays. A faster hydraulic conductivity is therefore unlikely in this setting. Furthermore, a decrease in hydraulic conductivity, more representative of clay deposits resulted in a ~25% decrease in antimony concentrations.
- 5.2.6 The sensitivity analysis also demonstrated that the adopted model parameters are conservative, as it is expected the proposed development platform will not solely comprise IBA, and rather a mixture of IBA and inert waste. Sensitivity analysis for scenario 1 indicated a decrease of 28% and 53% in antimony concentration at the base of the unsaturated zone and compliance point respectively when modelled for a 50% IBA composition of the development platform.
- 5.2.7 The results of the sensitivity analysis provide confidence in our adopted parameters, with the primary model being suitably precautionary and representing a realistic worst case scenario.

6 Consolidation of Existing Landfill

6.1 Context

- 6.1.1 Up to 10m thickness of imported material will be emplaced on top of the existing made ground at the site. This is anticipated to compress the existing made ground materials and could result in displacement of leachate within that material causing an increased risk to controlled waters.
- 6.1.2 The development platform is at its thickest within the north of the site, where it lies over Made Ground predominantly comprising of reworked natural soils.
- 6.1.3 Land raising requirements over the existing landfill (in the south) is lower, with existing ground levels generally ranging from 106 m AOD in the east to 109 m AOD in the west, compared against proposed final finish levels of approximately 110 m AOD. The southern extent of the landfill area is also to be set aside as retained open mosaic ecological habitat.

6.2 Expected Consolidation

- 6.2.1 In order to assess the viability of constructing a development platform and the impact of surcharging the underlying materials, an instrument trial embankment was constructed in 2022. The embankment was monitored to establish the order of magnitude of settlement which could be anticipated for the project and the likely time it would take for substantial settlement to occur. This report is included within Appendix E for reference.
- 6.2.2 The trial included an embankment of 20m x 40m in plan area and 4m high, which is similar to the level of filling anticipated over the landfill. In addition to the specialist settlement monitoring, a nearby down-gradient borehole was frequently monitored to determine any deterioration in groundwater quality. This included monitoring rounds undertaken before, during and after placement.
- 6.2.3 The findings showed that a significant proportion of the settlement occurred within 2 weeks of construction of the embankment, with the remaining settlement substantially complete within six months. The overall level of settlement was a drop of ~80mm in ground level.

6.3 Existing Landfill Materials

- 6.3.1 Landfill material within the extent of the southern landfills extended to approx. 10 m depth and comprised sand, gravel and clay soils combined with variable content of limestone, concrete, brick, timber, metal, plastic, fabric, clinker and ash.
- 6.3.2 Observations during the fieldworks noted the material as dry, with no saturated soils or water strikes recorded until the groundwater table was encountered. This is also substantiated by the laboratory test results presented within the Ground Investigation Report, which show the moisture content of the landfill material to be at an average of 15%.
- 6.3.3 Given the dry nature of the material, it is likely the consolidation shown during the trial embankment is primarily a result of collapse settlement and the reduction of air voids in the matrix, as opposed to a reduction of the already low pore water. Furthermore, an 80mm settlement across the 10m depth of underlying landfill is unlikely to result in significant squeezing and release sufficient to pose an acute risk to groundwater.

6.4 Groundwater Monitoring

- 6.4.1 The groundwater chemical results obtained from BH06 prior to, during and after filling are presented in Appendix F.
- 6.4.2 Concentrations of VOCs, SVOCs, PAH, BTEX and TPH compounds remained below laboratory detection limits throughout the monitoring period.
- 6.4.3 Concentrations of most metals generally show decreased levels following filling, with other compounds such sulphate showing no discernible change. Boron is the only compound showing an increase in groundwater concentration.
- 6.4.4 A summary of selected groundwater contaminants is presented below. To enable the trend line to function, test results below limit of detection have been shown as a numerical value at the limit. Contaminants are present at very low levels have been excluded from the dataset.

			Baseline Data				Filling	Post Construction					
Contaminant	Trend	Location	BH06	BH06	BH06	BH06	BH06	BH06	BH06	BH06	BH06	BH06	BH06
		Depth (m)	12.94	13.28	12.98	13.24	12.96	13.00	13.12	12.74	12.94	11.86	12.97
		Type	W	W	W	W	EW	W	W	W	W	W	W
		Date	30/07/20	12/01/22	10/02/22	10/03/22	09/09/22	14/10/22	18/11/22	14/12/22	30/03/23	17/04/24	31/07/24
Inorganics - Metals													
Arsenic			5	46	6	8	17	12	5	5	16	16.2	0.73
Boron			952	3420	2430	3130	2960	1860	5280	8530	5280	5060	4700
Lead			5	598	57	80	305	120	6	5	116	69	0.5
Nickel			13	45	15	18	26	11	7	7	14	12.2	7.2
Zinc			75	5010	455	529	3840	619	77	137	1260	1930	35
Inorganics - Miscellaneous													
pH			7.4	7.1	7.3	7.2	7.1	6.8	7.2	7	7.7	7.7	7.4
Cyanide - Total			30	34	34	31	35	43	33	22	5	14	50
Ammonia (as N)			3340	6810	10000	10300	13600	13700	2170	157	253	77	120
Nitrate (as NO3)			500	500	1700	1100	3000	2900	29400	31100	500	43800	1900
Sulphate			1210000	1050000	1080000	1060000	1010000	1030000	578000	1020000	1170000	805000	1100000

Table 6-A: BH06 Groundwater Monitoring Results

6.5 Assessment

- 6.5.1 An 80mm settlement over a deep landfill mass is considered relatively limited, and given the dry nature of the materials, no significant induced release of leachate is expected to occur as part of the construction of the development platform and increased overburden. Groundwater quality monitoring undertaken as part of a surcharge trial did not show any discernible deterioration in groundwater quality.
- 6.5.2 Overall, the construction of the development platform is not considered to pose an unacceptable risk of inducing leachate release sufficient to pose a risk to controlled waters.

7 Conclusion and Recommendations

7.1 Conclusion

- 7.1.1 Through a combination of desk based and intrusive investigation work, a thorough conceptual site model has been derived, and the LandSim model utilised to further assess the risk from the use of IBA within the proposed development platform.
- 7.1.1.1 The site is located within in a relatively low-risk area, with the underlying Northampton Sands Formation (Secondary A aquifer) having limited thickness on site (~2m) and regionally (≤5m), and being underlain by the unproductive Whitby Mudstone Formation. The hydraulic gradient is to the north, away from Willow Brook on the southern boundary of the site. The site is not located within a Source Protection Zone, there are no groundwater or surface water abstraction licenses held down-gradient of the site within 2km. The nearest down-gradient watercourse is at 1.3km distance.
- 7.1.2 Leachate testing of the IBA material indicated the majority of leachable contaminants to be below inert waste threshold values. Exceedances were noted for antimony, chloride, sulphate and total dissolved solids. Leachate analysis for both chloride and sulphate have not indicated any exceedances above the selected EAL, which was the lowest of available EQS and DWS threshold. Therefore, chloride and sulphate are not considered to pose a risk to controlled waters. The EALs for chloride and sulphate can be adopted as the compliance criteria for the IBA material without taking into account attenuation and dispersion.
- 7.1.3 Total dissolved solids is a measure of the dissolved combined content of inorganic and organic substances present and is an indicator parameter with no specific EQS or DWS values. It has there not been included in the assessment.
- 7.1.4 Due to exceedances of antimony against the adopted EAL, a DQRA using the LandSim modelling software has been undertaken to assess the potential for attenuation of leachable contamination at the base of the unsaturated zone and migration to identified controlled water receptors.
- 7.1.5 The results of the DQRA indicated that it is highly unlikely that the leachable concentrations of antimony within the IBA will pose a risk to the underlying aquifer and off site surface water receptors. As such, a site specific compliance limit for antimony and imported IBA material has been calculated based on statistical analysis of the leachate testing to date.

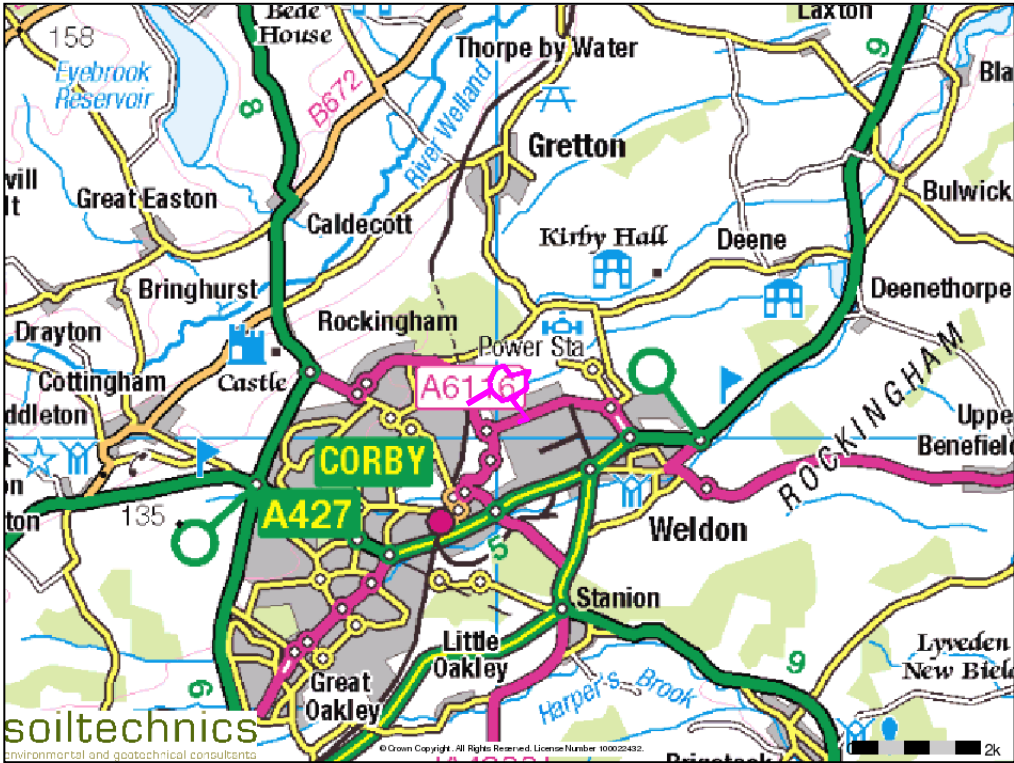
7.2 Landfill Design

- 7.2.1 A low permeability clay cap will be put over the development platform, with a minimum thickness of 1m to limit the infiltration of rainfall.
- 7.2.2 Any leachate arising from the development platform is designed to be freely draining into the underlying soils. No engineered base layer is proposed. No impermeable engineered side walls or bunds are proposed.
- 7.2.3 A visual, permeable marker layer, e.g. a geotextile, or geogrid, will be placed between the historic landfill materials and proposed imported materials for the development platform. The barrier is to provide a visual separation between permitted materials and is not designed to have an engineering benefit.

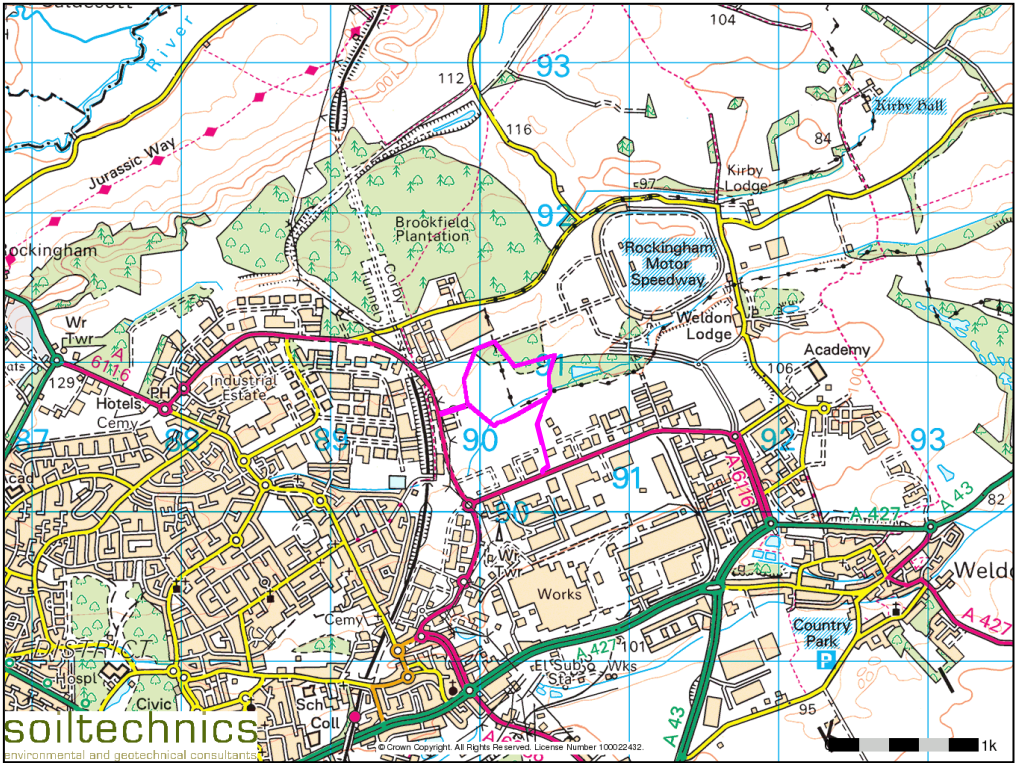
7.3 Site Specific Compliance Limit

- 7.3.1 The landfill directive requires that compliance levels are set for potentially polluting substances within a new landfill. Therefore, to support the use of IBA within the proposed development platform compliance targets are proposed, to ensure the protection of water resources.
- 7.3.2 Statutory Inert landfill WAC limits are to be adhered to for all determinants, except for the following:
- **Chloride**
250 mg/l at 10:1 eluate
Equates to a compliance limit of 2,500 l/kg
Based on the EA AAQs and UK drinking water standards.
 - **Sulphate**
250 mg/l at 10:1 eluate
Equates to a compliance limit of 2,500 l/kg
Based on the UK drinking water standards
 - **Antimony**
0.05 mg/l at 10:1 eluate
Equivalent to a compliance limit of 0.5 l/kg
Set at the mean IBA leachate concentration from the current dataset plus two standard deviations.
 - **Total Dissolved Solids**
No compliance criteria proposed, providing all other parameters fall within the prescribed limits.
- 7.3.3 These values supersede those presented within the January 2024 Operating Techniques report by Wardell Armstrong.

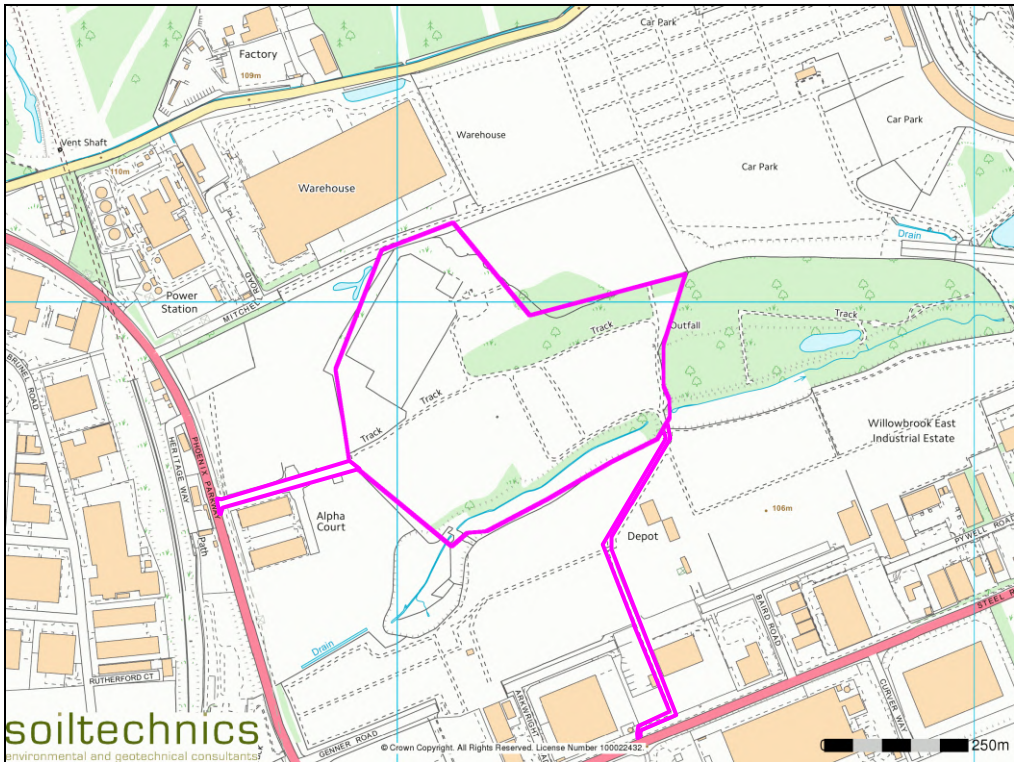
Appendix A Drawings



Neighbourhood extract from Ordnance Survey map



Town extract from Ordnance Survey map

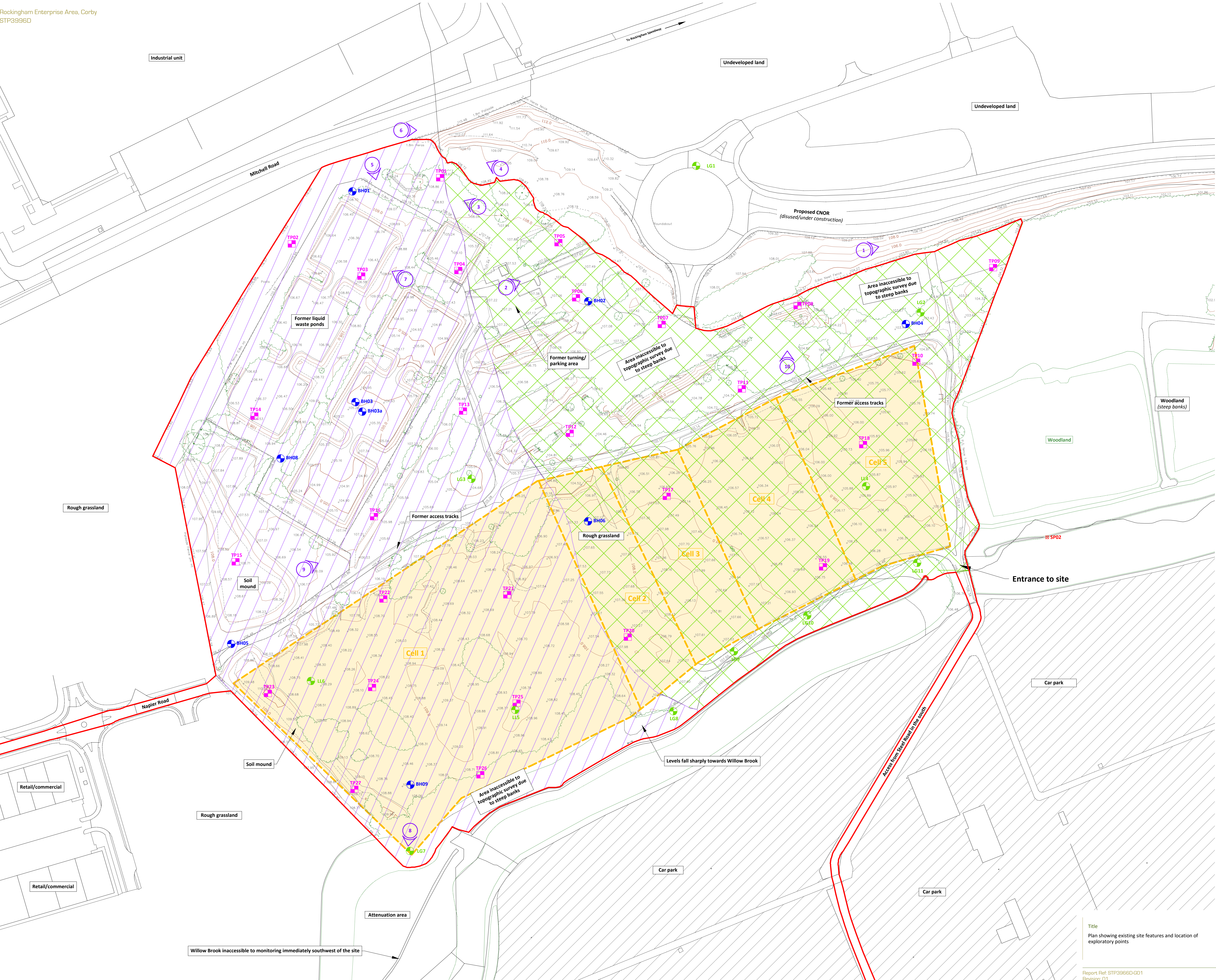


Detail extract from Ordnance Survey map

Title	Scale	Drawing number
Site location plan	Not to scale	01



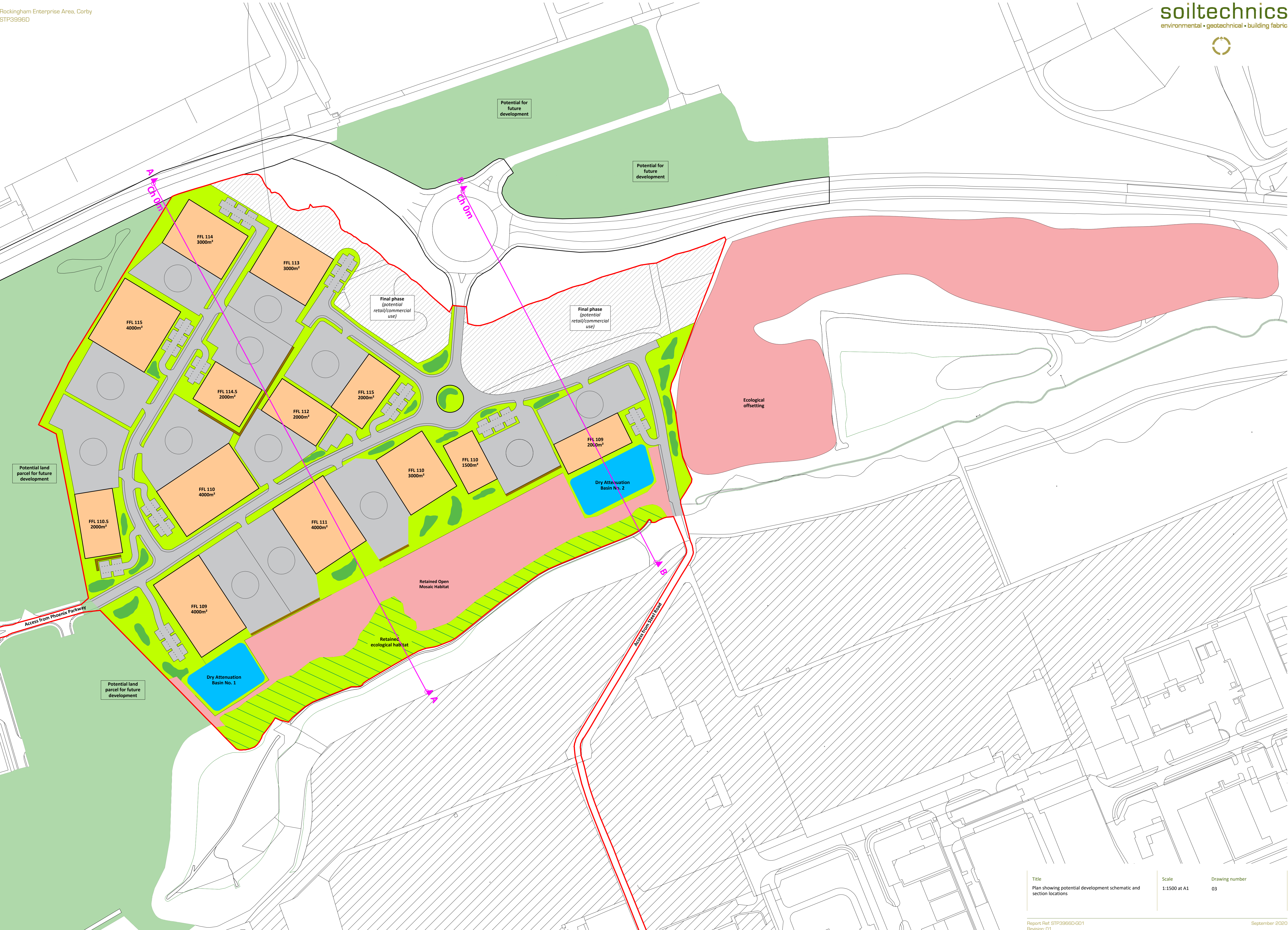
- Key
- BH Approximate location of proposed borehole formed by Cable and Tool percussive techniques
 - TP Approximate location of proposed trial pit excavation
 - SP Approximate location of proposed water sampling points
 - Historic borehole
 - Planning application boundary
 - Area of site lying within Corby Borough Council
 - Area of site lying within East Northampton Council
 - 1 Approximate location and orientation of photographic reference



Title
Plan showing existing site features and location of
exploratory points

Scale
1:1250 at A1

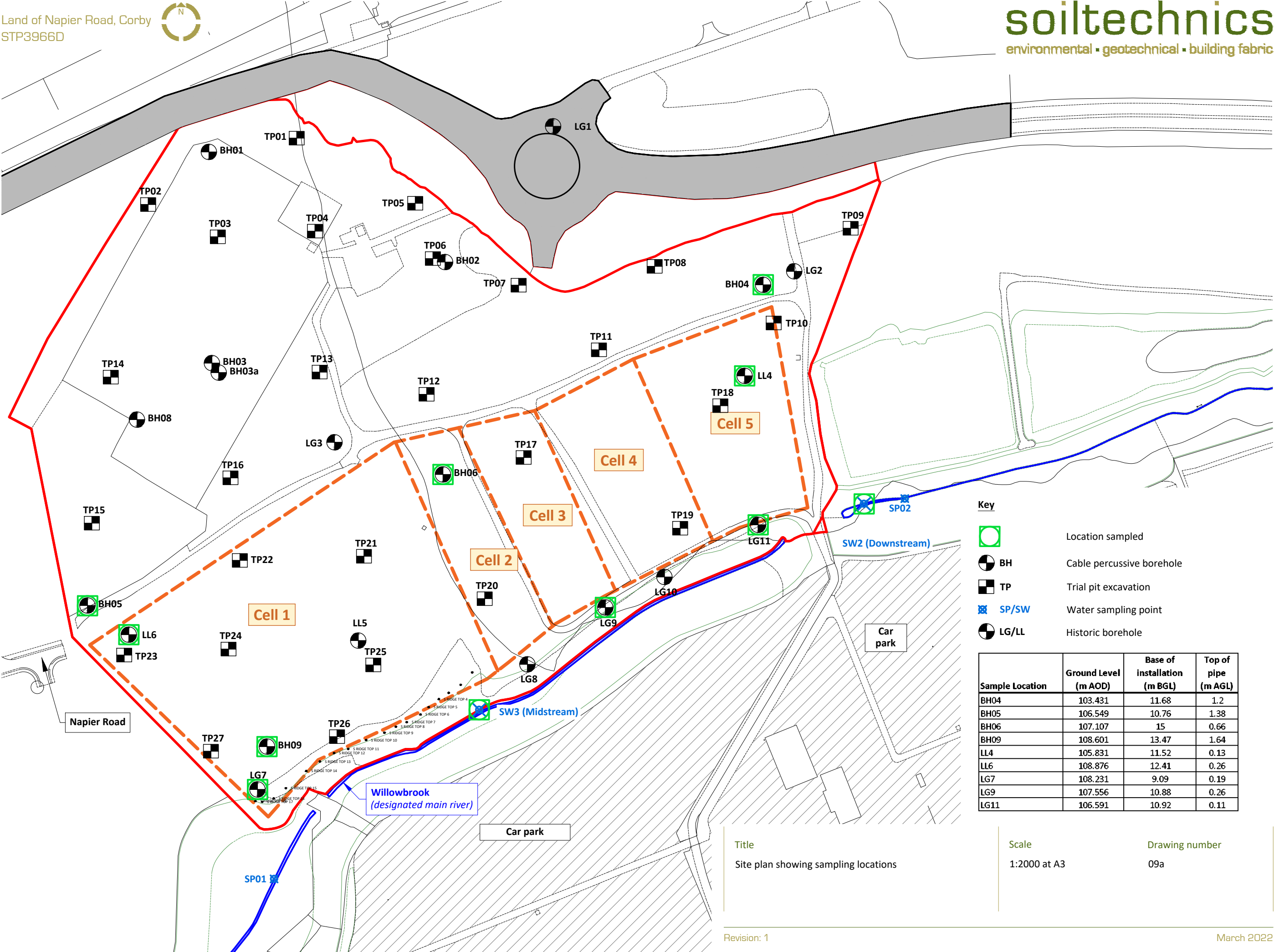
Drawing number
02

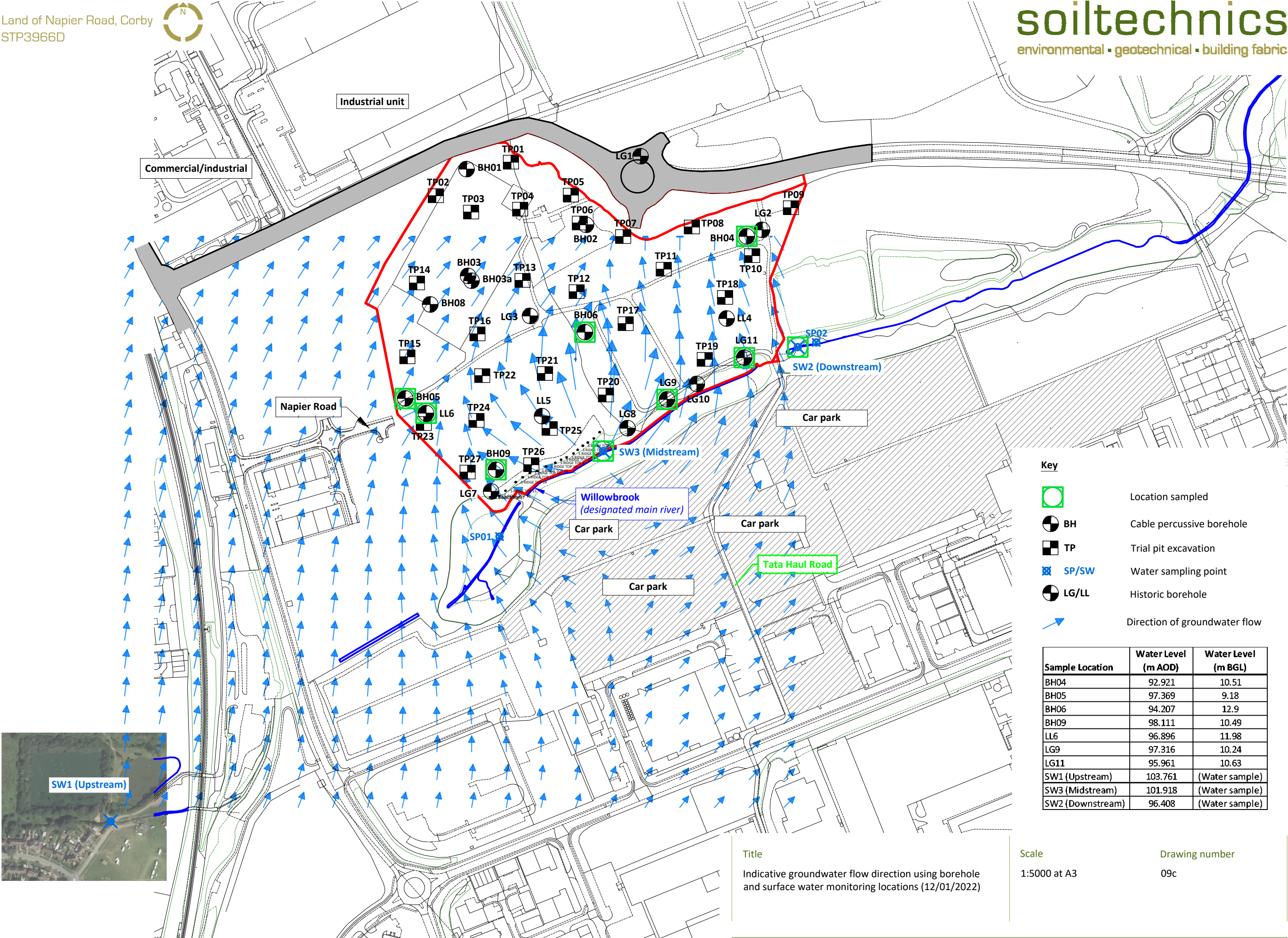


Title
Plan showing potential development schematic and section locations

Scale
1:1500 at A1

Drawing number
03

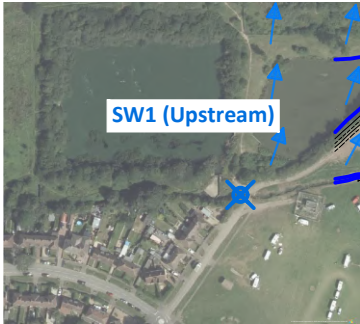




Key

- Location sampled
- BH Cable percussive borehole
- TP Trial pit excavation
- SP/SW Water sampling point
- LG/LL Historic borehole
- Direction of groundwater flow

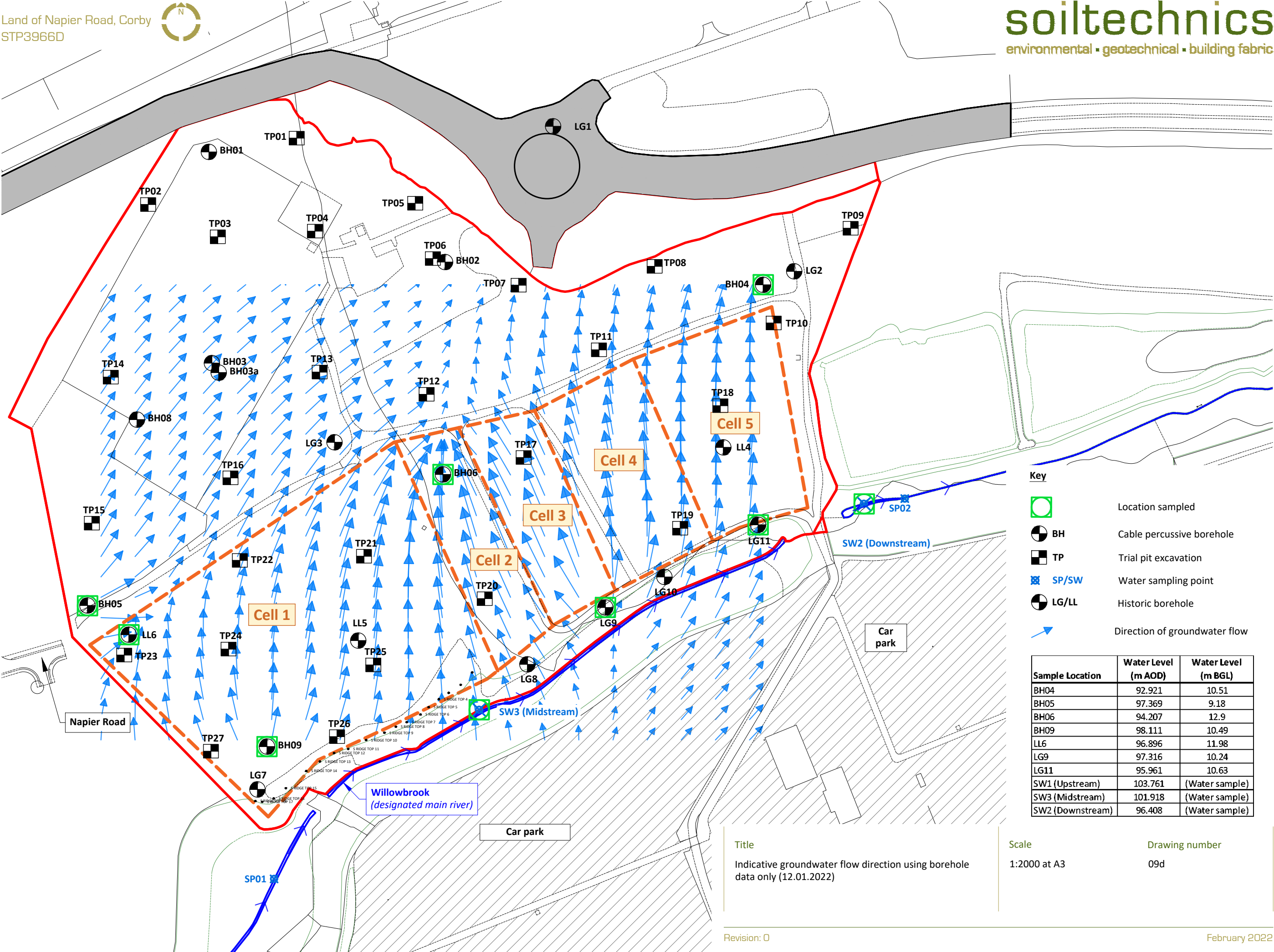
Sample Location	Water Level (m AOD)	Water Level (m BGL)
BH04	92.921	10.51
BH05	97.369	9.18
BH06	94.207	12.9
BH09	98.111	10.49
LL6	96.896	11.98
LG9	97.316	10.24
LG11	95.961	10.63
SW1 (Upstream)	103.761	(Water sample)
SW3 (Midstream)	101.918	(Water sample)
SW2 (Downstream)	96.408	(Water sample)



Title
Indicative groundwater flow direction using borehole and surface water monitoring locations (12/01/2022)

Scale
1:5000 at A3

Drawing number
09c



Key

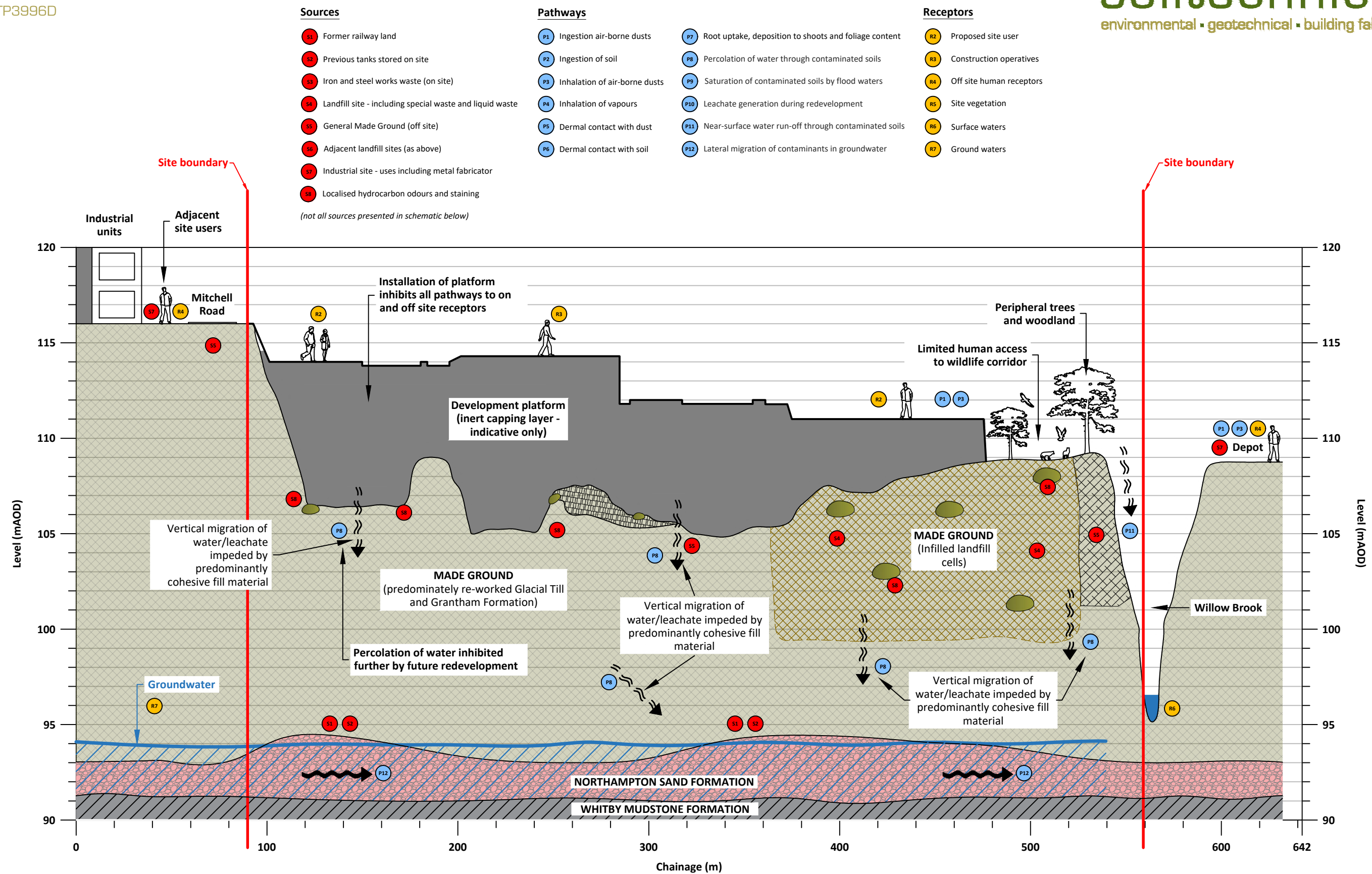
- Location sampled
- BH Cable percussive borehole
- TP Trial pit excavation
- SP/SW Water sampling point
- LG/LL Historic borehole
- Direction of groundwater flow

Sample Location	Water Level (m AOD)	Water Level (m BGL)
BH04	92.921	10.51
BH05	97.369	9.18
BH06	94.207	12.9
BH09	98.111	10.49
LL6	96.896	11.98
LG9	97.316	10.24
LG11	95.961	10.63
SW1 (Upstream)	103.761	(Water sample)
SW3 (Midstream)	101.918	(Water sample)
SW2 (Downstream)	96.408	(Water sample)

Title
Indicative groundwater flow direction using borehole data only (12.01.2022)

Scale
1:2000 at A3

Drawing number
09d



Key

Localised staining and hydrocarbon and or solvent odours

Title

Schematic conceptual site model - proposed

Scale

1:2000 at A3 (horizontal)
1:200 at A3 (vertical)

Drawing number

06

Appendix B WAC Testing Results



Interim Report

Report No.: 23-28353-0

Initial Date of Issue:

Re-Issue Details:

Client Soiltechnics Limited

Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STP3966D Rockingham Enterprise
Area, Corby

Quotation No.: Q23-32322 **Date Received:** 23-Aug-2023

Order No.: POR016257 **Date Instructed:** 23-Aug-2023

No. of Samples: 2

Turnaround (Wkdays): 7 **Results Due:** 01-Sep-2023

Date Approved: **Subcon Results Due:** 14-Sep-2023

Approved By:

Details:

Please note that the interim data available has passed our Quality Control Criteria but has not been verified by an approved signatory and may be subject to amendment on approval. Chemtest cannot therefore be held responsible for decisions made on interim data sets but only for the data submitted on a final report containing an approval date and signature.

Results - Soil

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited	Chemtest Job No.:				23-28353	23-28353
Quotation No.: Q23-32322	Chemtest Sample ID.:				1692631	1692632
Order No.: POR016257	Client Sample Ref.:				3	3
	Client Sample ID.:				SP01.3	SP02.3
	Sample Location:				SP01	SP02
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.00	0.00
	Date Sampled:				21-Aug-2023	21-Aug-2023
Determinand	Accred.	SOP	Units	LOD		
Moisture	N	2030	%	0.020	8.0	5.0
Alkali Reserve	N	2105	g NaOH eq	0.010	< 0.010	< 0.010
Dioxin (Subcon)	S		ng/kg	N/A	To Follow	To Follow
Furans (Subcon)	S		ng/kg	N/A	To Follow	To Follow
pH	M	2010		4.0	10.9	10.6
Chromium (Hexavalent)	N	2490	mg/kg	0.50	0.57	< 0.50

Results - 2 Stage WAC

Project: STP3966D Rockingham Enterprise Area, Corby

Chemtest Job No: 23-28353							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1692631							Limits			
Sample Ref: 3							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: SP01.3										
Sample Location: SP01										
Top Depth(m): 0.00										
Bottom Depth(m):										
Sampling Date: 21-Aug-2023										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				0.24	3	5	6
Loss On Ignition	2610	M	%				2.9	--	--	10
Total BTEX	2760	M	mg/kg				< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	M					10.9	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0080	--	To evaluate	To evaluate			
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0010	< 0.0002	0.0019	0.0010	0.5	2	25	
Barium	1455	U	0.012	0.006	0.023	0.070	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	< 0.0005	0.0040	< 0.0005	0.036	0.5	10	70	
Copper	1455	U	0.0098	0.020	0.020	0.010	2	50	100	
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2	
Molybdenum	1455	U	0.012	0.036	0.023	0.34	0.5	10	30	
Nickel	1455	U	0.0021	< 0.0005	0.0041	0.0021	0.4	10	40	
Lead	1455	U	< 0.0005	0.0032	< 0.0005	0.029	0.5	10	50	
Antimony	1455	U	0.0023	0.047	0.0047	0.43	0.06	0.7	5	
Selenium	1455	U	0.0020	0.0017	0.0039	0.017	0.1	0.5	7	
Zinc	1455	U	< 0.003	0.031	< 0.003	0.28	4	50	200	
Chloride	1220	U	1100	130	2300	2300	800	15000	25000	
Fluoride	1220	U	0.24	< 0.050	< 1.0	< 1.0	10	150	500	
Sulphate	1220	U	820	150	1600	2200	1000	20000	50000	
Total Dissolved Solids	1020	N	4400	800	8700	12000	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	70	9.9	140	160	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	8.0

Leachate Test Information	
Leachant volume 1st extract/l	0.335
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.178

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: STP3966D Rockingham Enterprise Area, Corby

Chemtest Job No: 23-28353							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1692632							Limits			
Sample Ref: 3							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID: SP02.3										
Sample Location: SP02										
Top Depth(m): 0.00										
Bottom Depth(m):										
Sampling Date: 21-Aug-2023										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				0.46	3	5	6
Loss On Ignition	2610	M	%				3.2	--	--	10
Total BTEX	2760	M	mg/kg				< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	M					10.6	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				0.0040	--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0027	0.0003	0.0053	0.0049	0.5	2	25	
Barium	1455	U	0.005	< 0.005	0.011	0.0033	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70	
Copper	1455	U	0.018	0.0088	0.037	0.012	2	50	100	
Mercury	1455	U	0.00021	< 0.00005	0.00041	0.00013	0.01	0.2	2	
Molybdenum	1455	U	0.21	0.020	0.42	0.32	0.5	10	30	
Nickel	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.4	10	40	
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50	
Antimony	1455	U	0.040	0.028	0.080	0.29	0.06	0.7	5	
Selenium	1455	U	0.017	0.0017	0.034	0.027	0.1	0.5	7	
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200	
Chloride	1220	U	960	46	1900	1000	800	15000	25000	
Fluoride	1220	U	0.14	< 0.050	< 1.0	< 1.0	10	150	500	
Sulphate	1220	U	800	92	1600	1400	1000	20000	50000	
Total Dissolved Solids	1020	N	4100	1700	8200	19000	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	54	4.2	110	74	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	5.0

Leachate Test Information	
Leachant volume 1st extract/l	0.341
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.110

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2105	Alkali Reserve	Alkali Reserve	Titration
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 23-40210-1

Initial Date of Issue: 11-Dec-2023

Re-Issue Details:

Client Storefield Aggregates

Client Address: Furnace Park
Old Telford Way
Telford Way Industrial Estate
Kettering
Northants
NN16 8UN

Contact(s): Adam Crane
Jonah Clarke
Steve Molcher
Weighbridge

Project GBR Telford Way

Quotation No.: **Date Received:** 05-Dec-2023

Order No.: TW094 **Date Instructed:** 05-Dec-2023

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 11-Dec-2023

Date Approved: 11-Dec-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Single Stage WAC

Project: GBR Telford Way

Chemtest Job No: 23-40210					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1740921					Limits		
Sample Ref: TW094					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:							
Sample Location: GBR							
Top Depth(m):							
Bottom Depth(m):							
Sampling Date: 01-Dec-2023							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	0.99	3	5	6
Loss On Ignition	2610	M	%	3.2	--	--	10
Total BTEX	2760	M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH at 20C	2010	M		10.6	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0040	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455	U	0.030	0.30	20	100	300
Cadmium	1455	U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455	U	0.0005	0.0051	0.5	10	70
Copper	1455	U	0.0045	0.045	2	50	100
Mercury	1455	U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455	U	0.024	0.24	0.5	10	30
Nickel	1455	U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455	U	0.022	0.22	0.06	0.7	5
Selenium	1455	U	0.0024	0.024	0.1	0.5	7
Zinc	1455	U	< 0.003	< 0.025	4	50	200
Chloride	1220	U	140	1400	800	15000	25000
Fluoride	1220	U	< 0.050	< 1.0	10	150	500
Sulphate	1220	U	57	570	1000	20000	50000
Total Dissolved Solids	1020	N	630	6300	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	5.9	59	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH at 20°C	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 24-00468-1

Initial Date of Issue: 15-Jan-2024

Re-Issue Details:

Client Storefield Aggregates

Client Address: Furnace Park
Old Telford Way
Telford Way Industrial Estate
Kettering
Northants
NN16 8UN

Contact(s): Adam Crane
Jonah Clarke
Steve Molcher
Weighbridge

Project GBR

Quotation No.: **Date Received:** 09-Jan-2024

Order No.: TW098 **Date Instructed:** 09-Jan-2024

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 15-Jan-2024

Date Approved: 15-Jan-2024

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Single Stage WAC

Project: GBR

Chemtest Job No: 24-00468						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1751805						Limits		
Sample Ref: TW098						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: GBR								
Top Depth(m):								
Bottom Depth(m):								
Sampling Date: 05-Jan-2024								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.90	3	5	6
Loss On Ignition	2610		M	%	3.6	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_1D_Total_CU	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		M		10.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.014	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0046	0.5	2	25
Barium	1455		U	0.013	0.13	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0052	0.052	0.5	10	70
Copper	1455		U	0.012	0.12	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.023	0.23	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.025	0.25	0.06	0.7	5
Selenium	1455		U	0.0011	0.011	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	240	2400	800	15000	25000
Fluoride	1220		U	< 0.050	< 1.0	10	150	500
Sulphate	1220		U	180	1800	1000	20000	50000
Total Dissolved Solids	1020		N	920	9200	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information

Dry mass of test portion/kg	0.090
Moisture (%)	14

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH at 20°C	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 24-01887-1

Initial Date of Issue: 29-Jan-2024

Re-Issue Details:

Client Storefield Aggregates

Client Address: Furnace Park
Old Telford Way
Telford Way Industrial Estate
Kettering
Northants
NN16 8UN

Contact(s): Adam Crane
Jonah Clarke
Steve Molcher
Weighbridge

Project GBR

Quotation No.: **Date Received:** 23-Jan-2024

Order No.: TW101 **Date Instructed:** 23-Jan-2024

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 29-Jan-2024

Date Approved: 29-Jan-2024

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: GBR

Client: Storefield Aggregates		Chemtest Job No.:		24-01887		
Quotation No.:		Chemtest Sample ID.:		1757110		
Order No.: TW101		Client Sample Ref.:		TW101		
		Sample Location:		GBR		
		Sample Type:		SOIL		
		Date Sampled:		19-Jan-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones
Soil Texture		N	2040		N/A	Sand

Results - Single Stage WAC

Project: GBR

<div>Chemtest Job No: 24-01887</div> <div>Chemtest Sample ID: 1757110</div> <div>Sample Ref: TW101</div> <div>Sample ID:</div> <div>Sample Location: GBR</div> <div>Top Depth(m):</div> <div>Bottom Depth(m):</div> <div>Sampling Date: 19-Jan-2024</div>						Landfill Waste Acceptance Criteria		
						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.68	3	5	6
Loss On Ignition	2610		M	%	2.7	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		M		11.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.016	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455		U	0.015	0.15	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0007	0.0071	0.5	10	70
Copper	1455		U	0.0020	0.021	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.020	0.20	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.014	0.14	0.06	0.7	5
Selenium	1455		U	0.0010	0.0096	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	130	1300	800	15000	25000
Fluoride	1220		U	< 0.050	< 1.0	10	150	500
Sulphate	1220		U	18	180	1000	20000	50000
Total Dissolved Solids	1020		N	540	5400	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.8	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH at 20°C	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

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Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 24-04235-1

Initial Date of Issue: 20-Feb-2024

Re-Issue Details:

Client Storefield Aggregates

Client Address: Furnace Park
Old Telford Way
Telford Way Industrial Estate
Kettering
Northants
NN16 8UN

Contact(s): Adam Crane
Jonah Clarke
Steve Molcher
Weighbridge

Project GBR Telford Way

Quotation No.: **Date Received:** 13-Feb-2024

Order No.: TW105 **Date Instructed:** 13-Feb-2024

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 19-Feb-2024

Date Approved: 20-Feb-2024

Approved By:

Details: Stuart Henderson, Technical
Manager

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Single Stage WAC

Project: GBR Telford Way

Chemtest Job No: 24-04235 Chemtest Sample ID: 1765851 Sample Ref: TW105 Sample ID: Sample Location: GBR Top Depth(m): Bottom Depth(m): Sampling Date: 02-Feb-2024						Landfill Waste Acceptance Criteria		
						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.99	3	5	6
Loss On Ignition	2610		M	%	3.2	--	--	10
Total BTEX	2760		M	mg/kg	0.21	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		M		11.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.069	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455		U	1.7	17	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0007	0.0072	0.5	10	70
Copper	1455		U	0.022	0.22	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.017	0.17	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.034	0.34	0.5	10	50
Antimony	1455		U	0.0048	0.048	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.065	0.65	4	50	200
Chloride	1220		U	150	1500	800	15000	25000
Fluoride	1220		U	0.28	2.8	10	150	500
Sulphate	1220		U	2.3	23	1000	20000	50000
Total Dissolved Solids	1020		N	1500	15000	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	6.7	67	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

Water Sample Category Key for Accreditation

DW - Drinking Water

GW - Ground Water

LE - Land Leachate

NA - Not Applicable

PL - Prepared Leachate

PW - Processed Water

Report Information

RE - Recreational Water

SA - Saline Water

SW - Surface Water

TE - Treated Effluent

TS - Treated Sewage

UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up

MC - Mathematical Clean Up

FC - Florisil Clean Up

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 24-08563-1

Initial Date of Issue: 28-Mar-2024

Re-Issue Details:

Client Storefield Aggregates

Client Address: Furnace Park
Old Telford Way
Telford Way Industrial Estate
Kettering
Northants
NN16 8UN

Contact(s): Adam Crane
Jonah Clarke
Steve Molcher
Weighbridge

Project GBR Telford Way

Quotation No.: **Date Received:** 19-Mar-2024

Order No.: TW113 **Date Instructed:** 19-Mar-2024

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 25-Mar-2024

Date Approved: 28-Mar-2024

Approved By:

Details: Stuart Henderson, Technical
Manager

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Single Stage WAC

Project: GBR Telford Way

Chemtest Job No: 24-08563						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1782239						Limits		
Sample Ref: GBR						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: GBR								
Top Depth(m):								
Bottom Depth(m):								
Sampling Date: 15-Mar-2024								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.1	3	5	6
Loss On Ignition	2610		M	%	4.6	--	--	10
Total BTEX	2760		M	mg/kg	U/S	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC With Florisil	2670	EH_CU_1D_Total	M	mg/kg	51	500	--	--
Total (Of 17) PAH's	2700		N	mg/kg	< 2.0	100	--	--
pH at 20C	2010		M		10.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.048	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0009	0.0085	0.5	2	25
Barium	1455		U	0.014	0.14	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0060	0.060	0.5	10	70
Copper	1455		U	0.0068	0.068	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.026	0.26	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	0.0030	0.030	0.5	10	50
Antimony	1455		U	0.022	0.22	0.06	0.7	5
Selenium	1455		U	0.0016	0.016	0.1	0.5	7
Zinc	1455		U	0.012	0.12	4	50	200
Chloride	1220		U	160	1600	800	15000	25000
Fluoride	1220		U	< 0.050	< 1.0	10	150	500
Sulphate	1220		U	76	760	1000	20000	50000
Total Dissolved Solids	1020		N	690	6900	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

Water Sample Category Key for Accreditation

DW - Drinking Water

GW - Ground Water

LE - Land Leachate

NA - Not Applicable

PL - Prepared Leachate

PW - Processed Water

Report Information

RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Appendix C Geotechnical Test Results



LABORATORY REPORT



Contract Number: PSL23/7025

Report Date: 01 September 2023

Client's Reference: STP3966D

Client Name: Soiltechnics
Cedar Barn
White Lodge
Walgrave
Northamptonshire
NN6 9PY

For the attention of: Angus Wilson

Contract Title: Rockingham Enterprise, Corby

Date Received: 23/8/2023

Date Commenced: 23/8/2023

Date Completed: 1/9/2023

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)

5 – 7 Hexthorpe Road,
Hexthorpe,
Doncaster,
DN4 0AR
Tel: 01302 768098
Email: rberriman@prosoils.co.uk
awatkins@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

Rockingham Enterprise, Corby

Contract No:

PSL23/7025

Client Ref:**STP3966D**

SUMMARY OF SOIL DENSITY RELATED TESTS

(BS1377 : PART 2 & 4 : 1990)

[illegible]

Rockingham Enterprise, Corby

Contract No:

PSL23/7025

Client Ref:

STP3966D

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

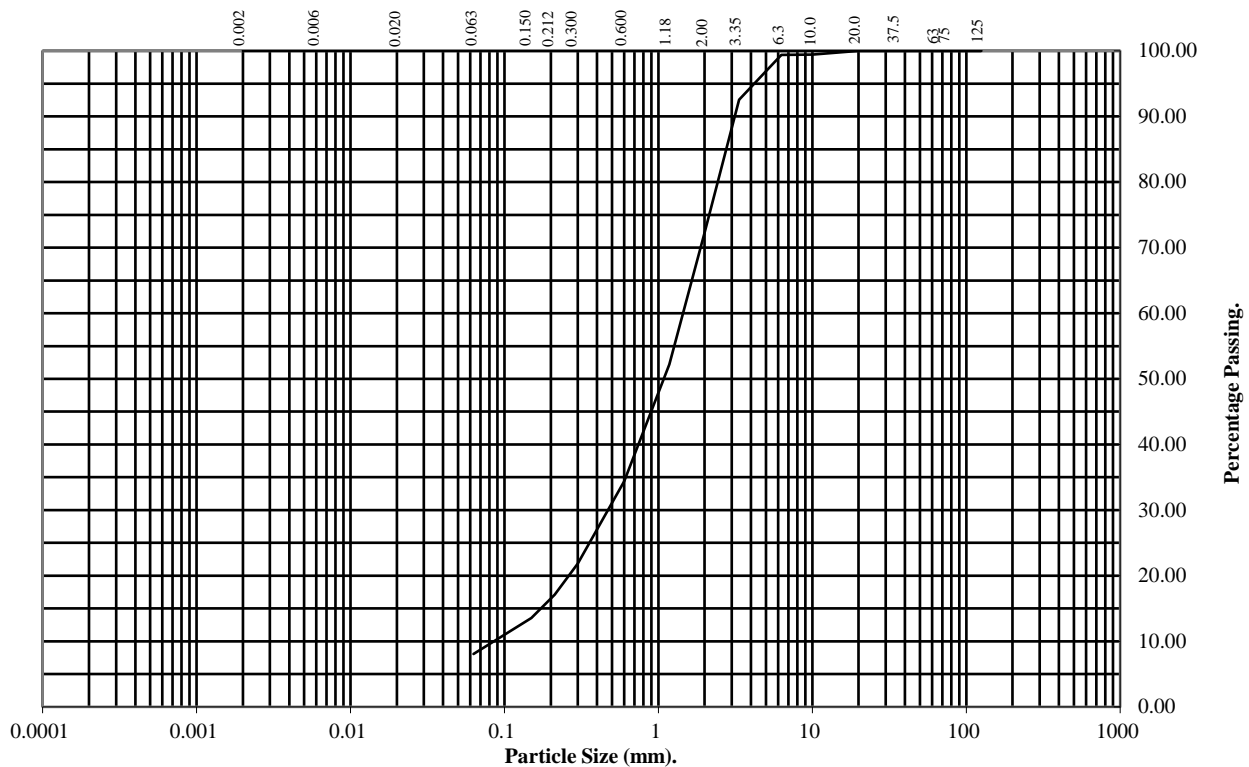
Hole Number: SP01

Top Depth (m):

Sample Number: 1

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	99
6.3	99
3.35	93
2	72
1.18	52
0.6	34
0.3	22
0.212	17
0.15	14
0.063	8

Soil Fraction	Total Percentage
Cobbles	0
Gravel	28
Sand	64
Silt/Clay	8

Remarks:

See Summary of Soil Descriptions



Rockingham Enterprise, Corby

Contract No:
PSL23/7025
Client Ref:
STP3966D

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

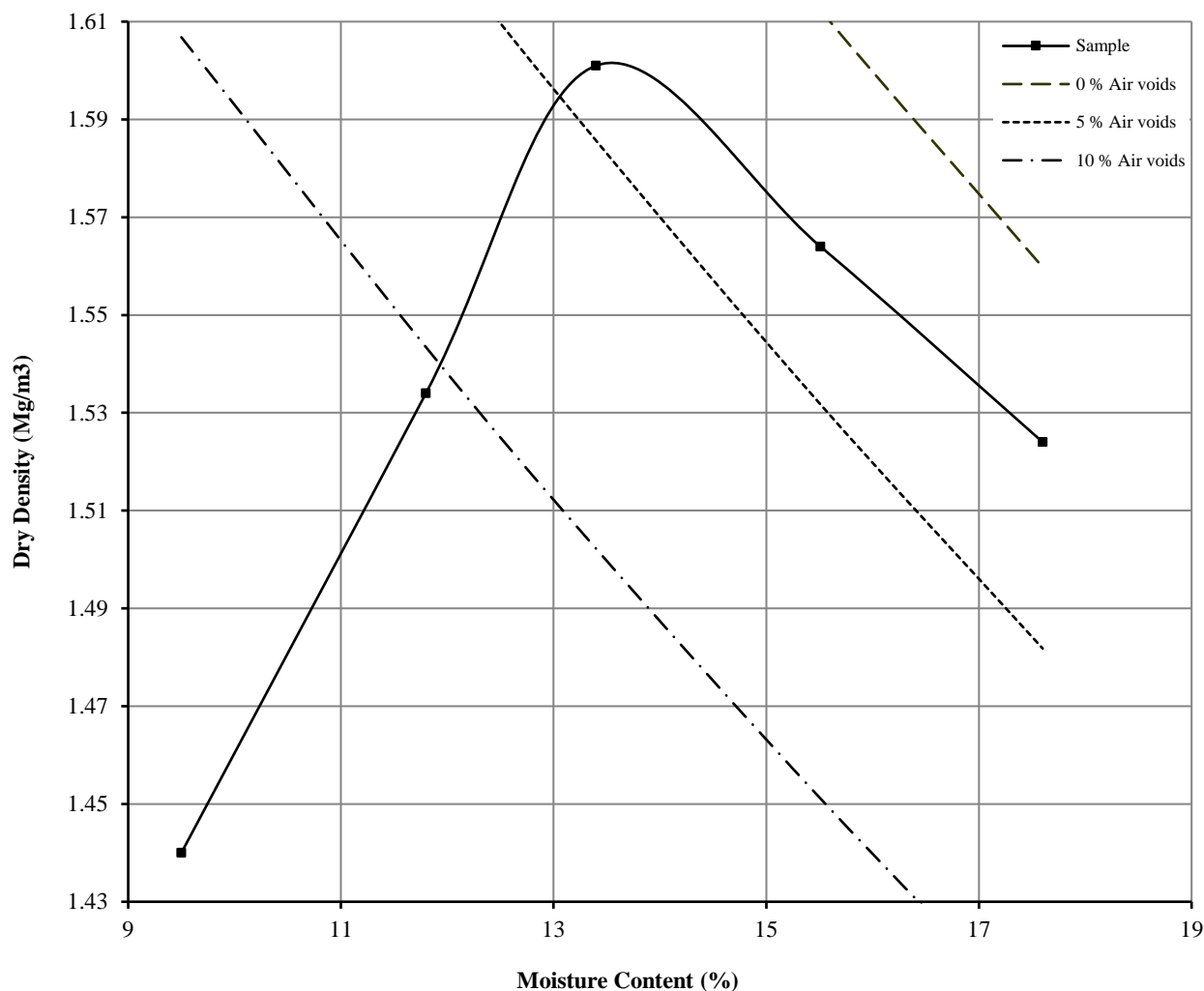
Hole Number: SP01

Top Depth (m) :

Sample Number: 1

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	9.5	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m³):	2.15	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m³):	1.60		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	13			
Remarks See summary of soil descriptions				



Rockingham Enterprise, Corby

Contract
PSL23/7025
Client Ref
STP3966D

SWELLING OF SPECIMEN IN CBR MOULD

Hole Number: SP01

Top Depth (m): 0.00

Sample Number: 1

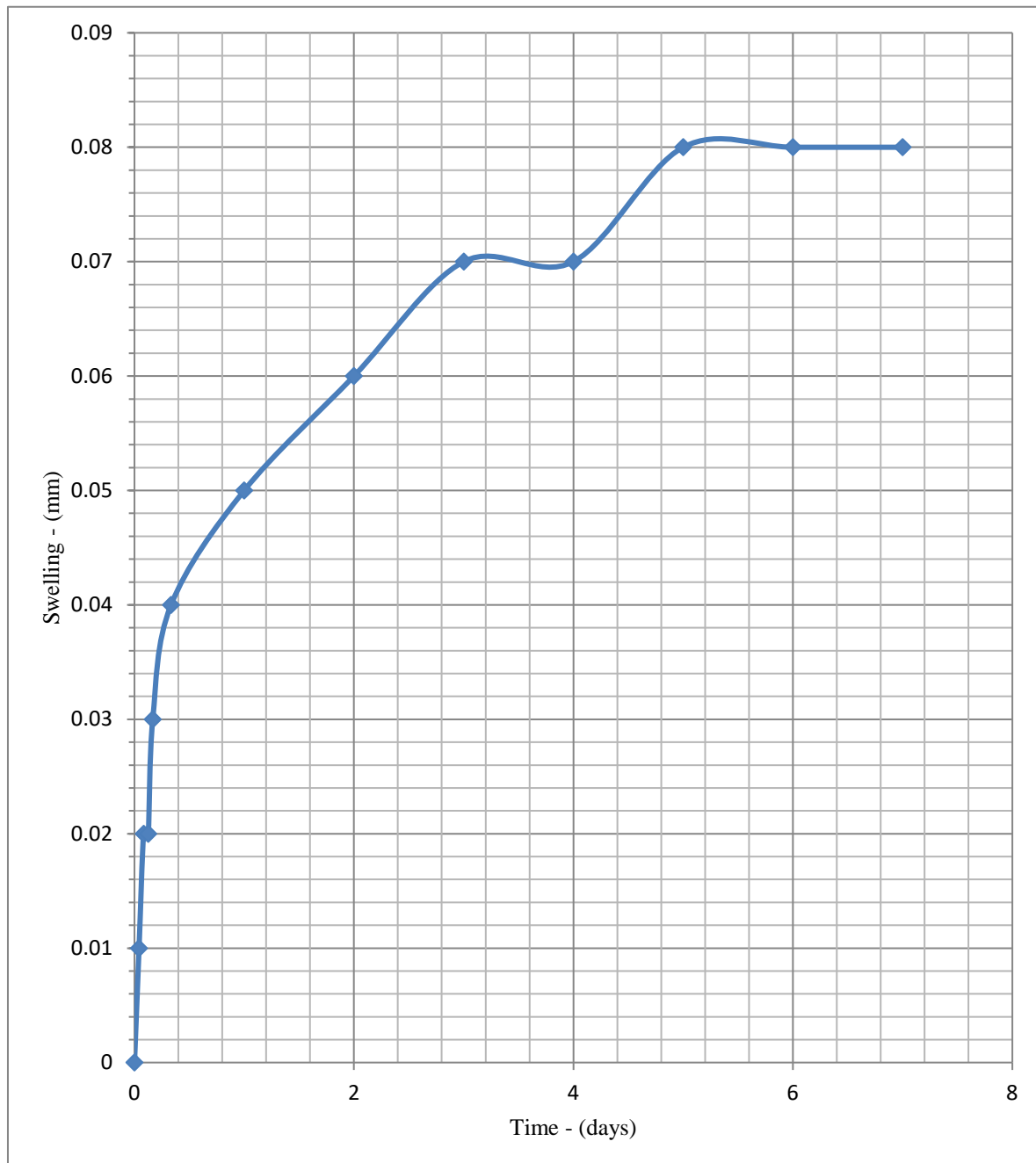
Base Depth (m):

Sample Type: B

Specimen preparation and mould details:

Remoulded using 2.5kg effort

Mould Diameter - mm	151.91	Mould height - mm	127.27
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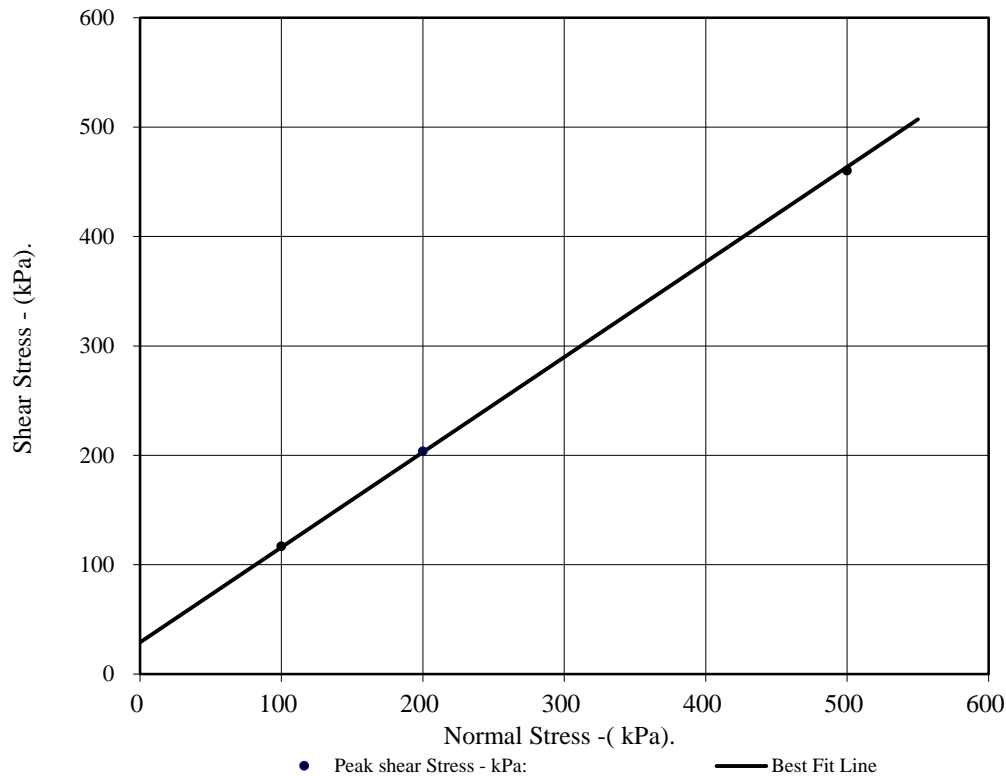
Rockingham Enterprise, Corby

Contract No:
PSL23/7025
Client Ref:
STP3966D

CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 5

Hole Number:	SP01		Top Depth:	0.00	
Sample Number:	1		Base Depth:		
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.15	Assumed	Remarks:		
Sample Preparation:	Material tested passing 20mm sieve Recompacted using 2.5kg effort				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			150	150	150
Length - mm:			305	305	305
Moisture Content - %:			9.5	9.5	9.5
Bulk Density - Mg/m3:			1.58	1.58	1.58
Dry Density - Mg/m3:			1.44	1.44	1.44
Voids Ratio:			0.493	0.493	0.493
Normal Pressure- kPa			100	200	500
Consolidation Stage					
Consolidated Height - mm:			146.16	145.53	142.65
Shearing Stage					
Rate of Strain (mm/min)			1.00	1.00	1.00
Displacement at peak shear stress (mm)			18.07	22.08	31.36
Peak shear Stress - kPa:			117	204	460
Final Consolidated Conditions					
Moisture Content - %:			9.4	9.1	9.2
Bulk Density - Mg/m3:			1.66	1.68	1.75
Dry Density - Mg/m3:			1.52	1.54	1.60
Peak					
Angle of Shearing Resistance:(θ)			41		
Effective Cohesion - kPa:			29		



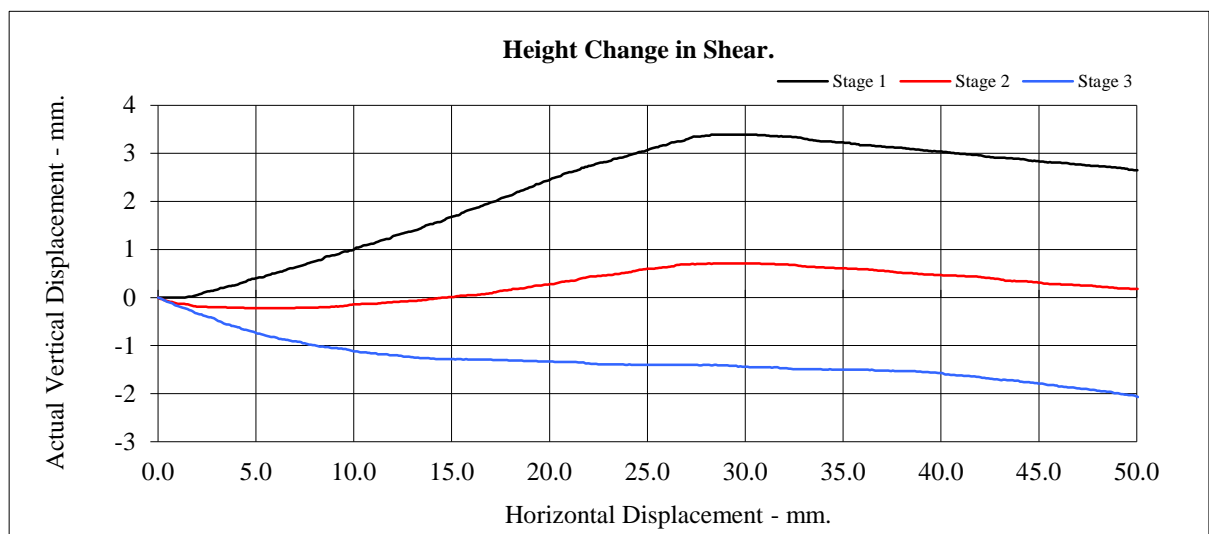
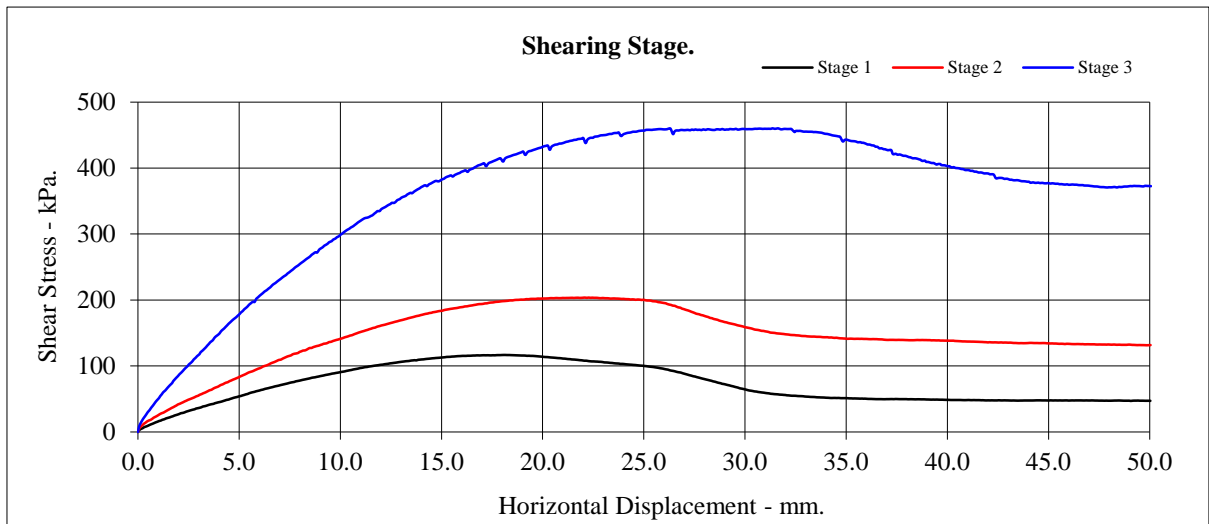
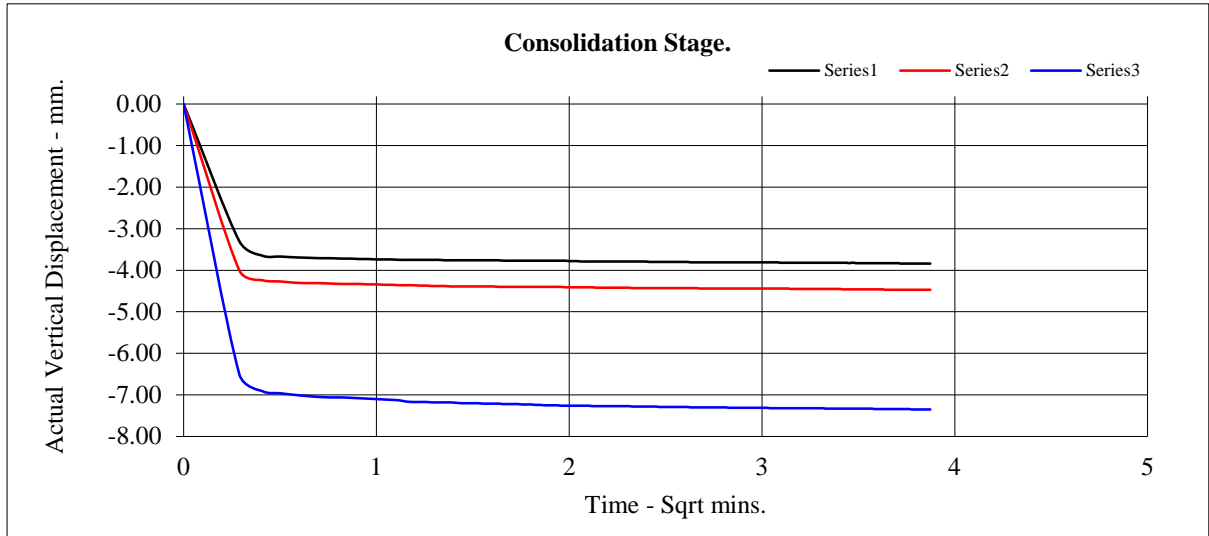
Rockingham Enterprise, Corby

Contract No:
PSL23/7025
Client Ref:
STP3966D

CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 5

Hole Number:	SP01	Top Depth:	0.00
Sample Number:	1	Base Depth:	



Rockingham Enterprise, Corby

Contract No:
PSL23/7025
Client Ref:
STP3966D

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

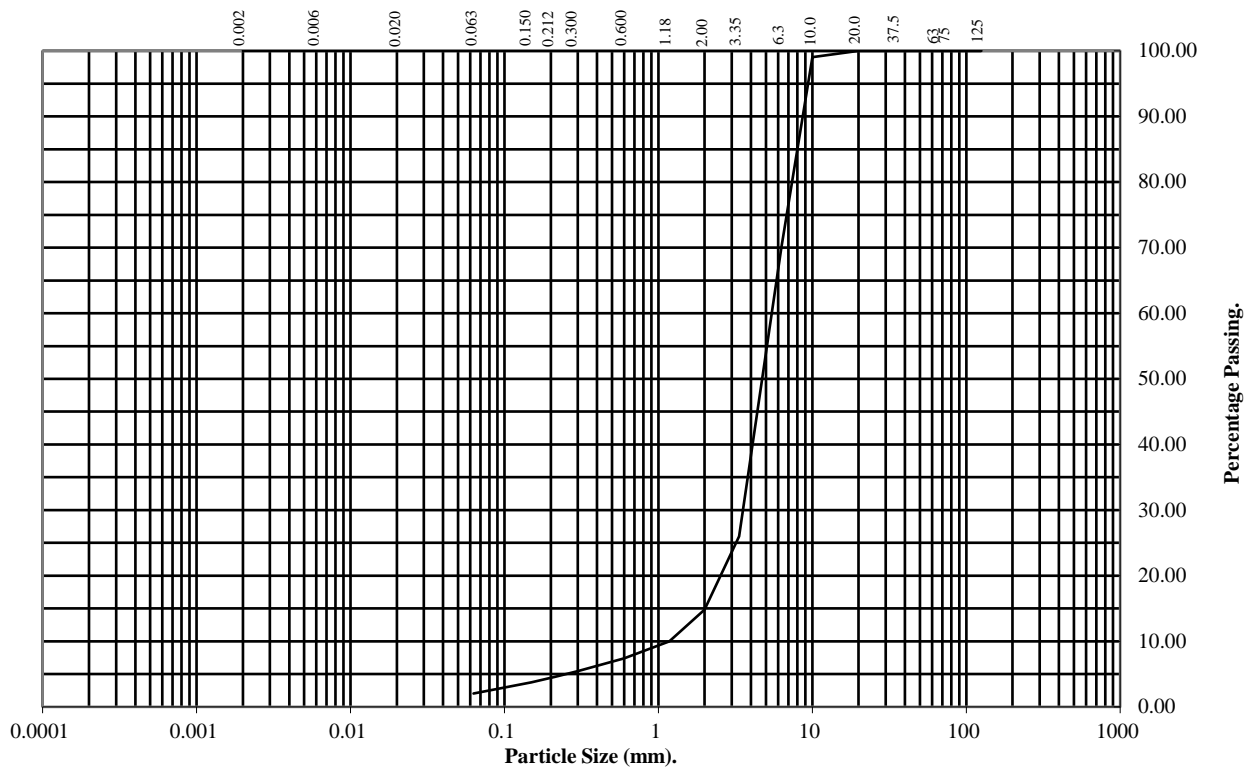
Hole Number: SP02

Top Depth (m):

Sample Number: 1

Base Depth(m):

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	99
6.3	70
3.35	26
2	15
1.18	10
0.6	7
0.3	5
0.212	5
0.15	4
0.063	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	85
Sand	13
Silt/Clay	2

Remarks:

See Summary of Soil Descriptions



Rockingham Enterprise, Corby

Contract No:
PSL23/7025
Client Ref:
STP3966D

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

BS 1377 : Part 4 : Clause 3.3 : 1990

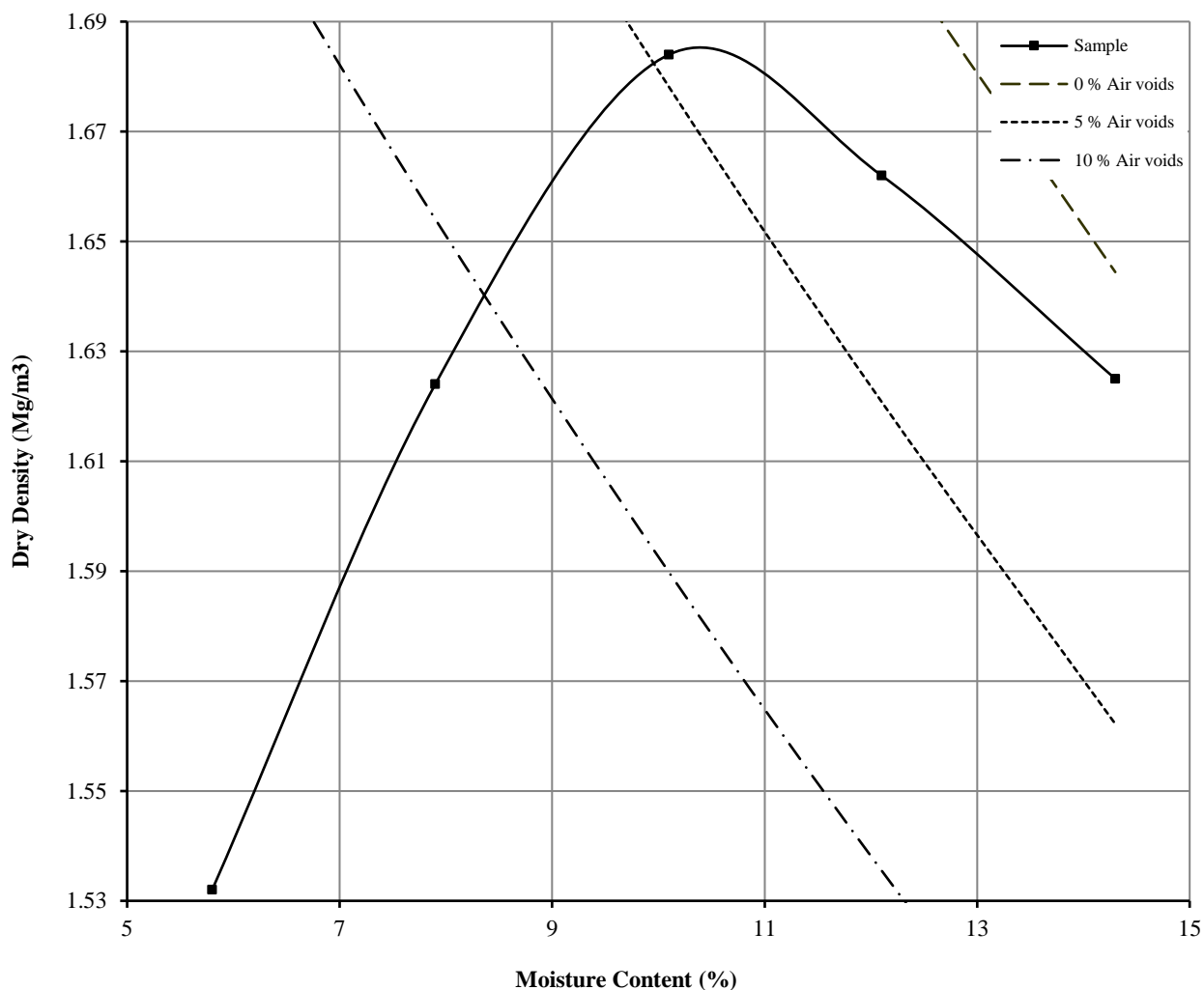
Hole Number: SP02

Top Depth (m) :

Sample Number: 1

Base Depth (m) :

Sample Type: B



Initial Moisture Content:	5.8	Method of Compaction:	2.5kg	Separate Samples
Particle Density (Mg/m3):	2.15	Assumed	Material Retained on 37.5 mm Test Sieve (%):	0
Maximum Dry Density (Mg/m3):	1.68		Material Retained on 20.0 mm Test Sieve (%):	0
Optimum Moisture Content (%):	10			
Remarks See summary of soil descriptions				



Rockingham Enterprise, Corby

Contract
PSL23/7025
Client Ref
STP3966D

SWELLING OF SPECIMEN IN CBR MOULD

Hole Number: SP02

Top Depth (m): 0.00

Sample Number: 1

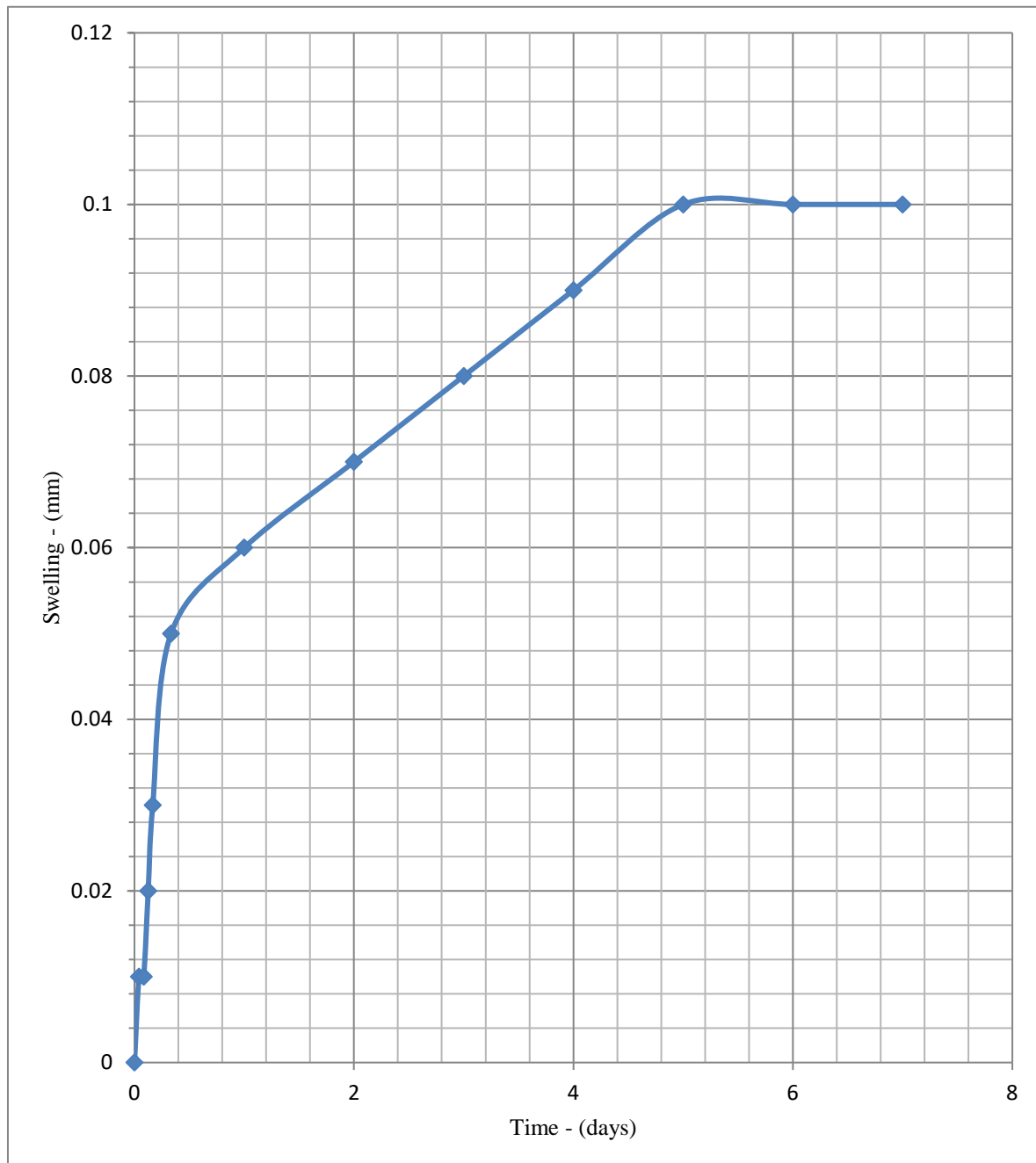
Base Depth (m):

Sample Type: B

Specimen preparation and mould details:

Remoulded using 2.5kg effort

Mould Diameter - mm	151.83	Mould height - mm	127.46
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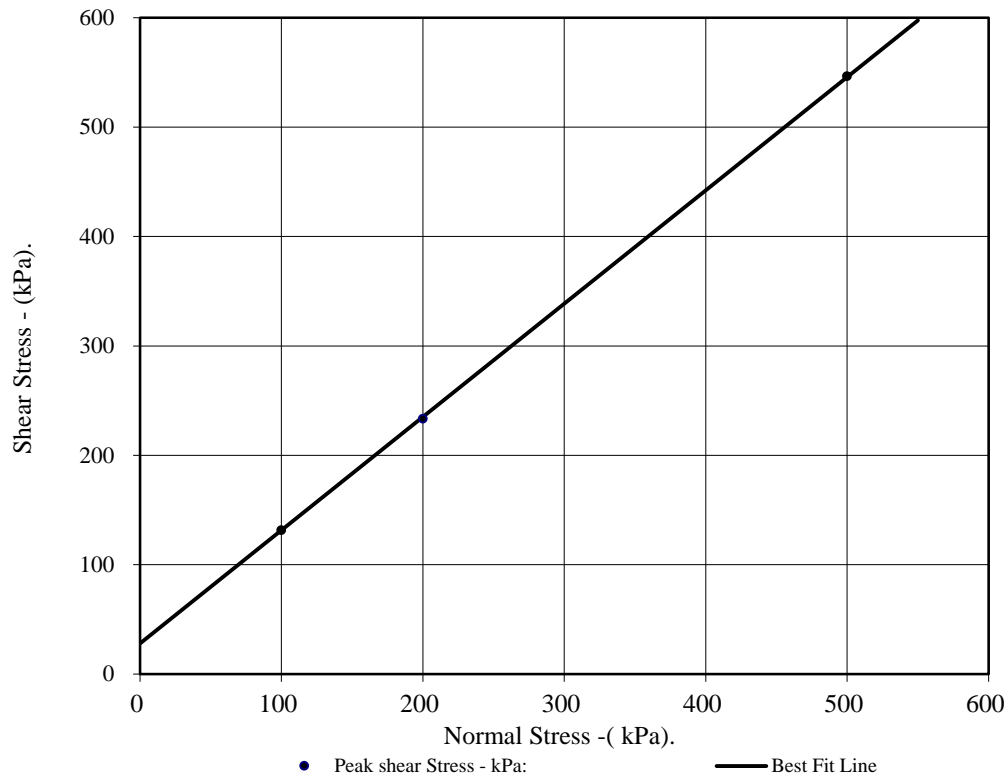
Rockingham Enterprise, Corby

Contract No:
PSL23/7025
Client Ref:
STP3966D

CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 5

Hole Number:	SP02		Top Depth:	0.00	
Sample Number:	1		Base Depth:		
Sample Conditions:	Dry		Sample Type	B	
Particle Density - Mg/m3:	2.15	Assumed	Remarks:		
Sample Preparation:	Material tested passing 20mm sieve Recompacted using hand tamped effort				
Sample Description:	See summary of soil descriptions.				
STAGE			1	2	3
Initial Conditions					
Height - mm:			150	150	150
Length - mm:			305	305	305
Moisture Content - %:			5.8	5.8	5.8
Bulk Density - Mg/m3:			1.63	1.63	1.63
Dry Density - Mg/m3:			1.54	1.54	1.54
Voids Ratio:			0.395	0.395	0.395
Normal Pressure- kPa			100	200	500
Consolidation Stage					
Consolidated Height - mm:			146.89	144.76	139.17
Shearing Stage					
Rate of Strain (mm/min)			1.00	1.00	1.00
Displacement at peak shear stress (mm)			20.83	25.70	33.38
Peak shear Stress - kPa:			131	233	546
Final Consolidated Conditions					
Moisture Content - %:			5.6	5.7	5.3
Bulk Density - Mg/m3:			1.70	1.75	1.81
Dry Density - Mg/m3:			1.61	1.66	1.72
Peak					
Angle of Shearing Resistance:(θ)			46		
Effective Cohesion - kPa:			28		



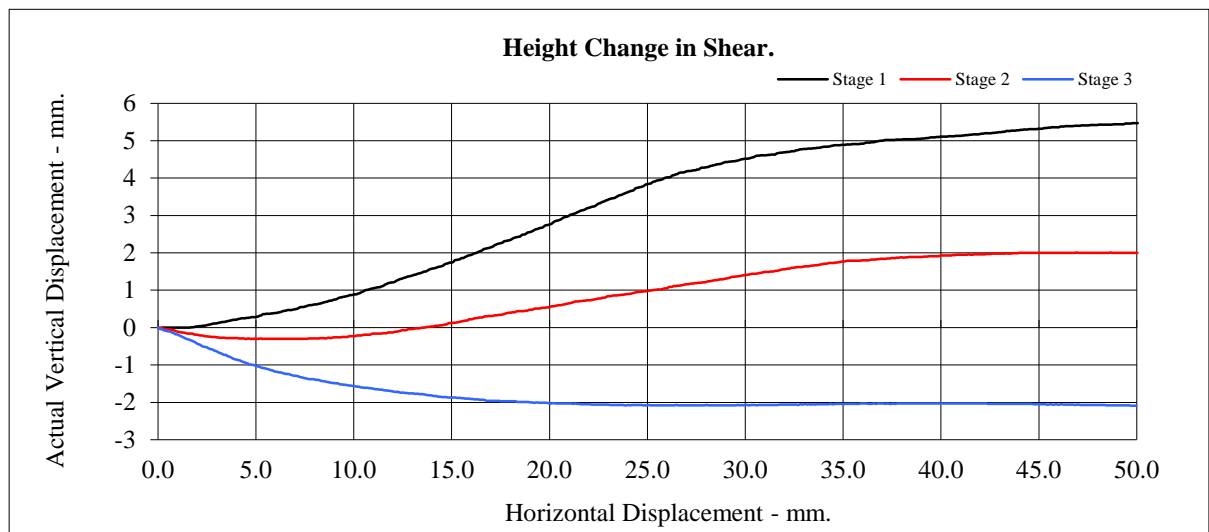
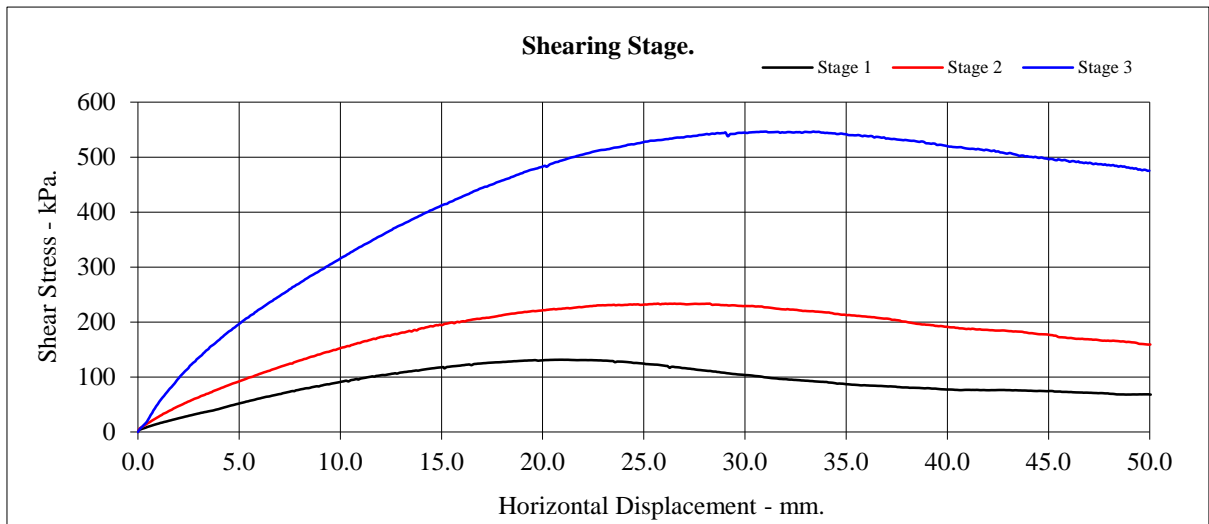
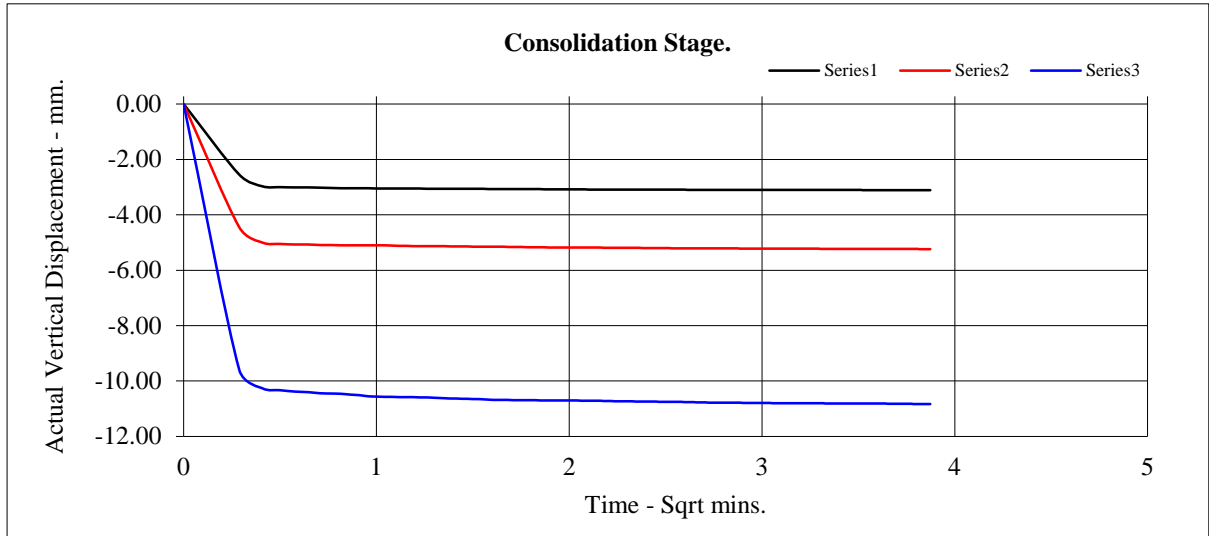
Rockingham Enterprise, Corby

Contract No:
PSL23/7025
Client Ref:
STP3966D

CONSOLIDATED DRAINED SHEARBOX TEST

BS1377:Part 7:1990 Clause 5

Hole Number:	SP02	Top Depth:	0.00
Sample Number:	1	Base Depth:	



Rockingham Enterprise, Corby

Contract No:
PSL23/7025
Client Ref:
STP3966D

DETERMINATION OF LOS ANGELES COEFFICIENT

BS EN ISO 1097 Part 2 : 2020

Hole Number: SP02 Top Depth (m):
Sample Number: 1 Base Depth (m):
Sample Type: B Sample Date:
Sample Description: See summary of soil descriptions

Test Specimen Details:	Mass (g)	Mass (%)
Passing 8mm sieve	5000	100
Retained 6.5mm sieve	1863	37
Retained 4mm sieve	3137	63
Retained 1.6mm sieve post rotation and washing	3134	n/a

Test Results:	
LA Coefficient	37

Remarks:



Rockingham Enterprise, Corby

Contract No:
PSL23/7025
Client Ref:
STP3966D

Appendix D DQRA Input Parameters And Graph Extracts

Calculation Settings

Number of iterations: 1001

Results calculated using sampled PDFs

Full Calculation

Clay Liner:

Unretarded values used for simulation

No Biodegradation

Unsaturated Pathway:

Retarded values used for simulation

Biodegradation

Saturated Vertical Pathway:

No Vertical Pathway

Aquifer Pathway:

Unretarded values used for simulation

No Biodegradation

Timeslices at: 3, 6, 20, 50

Decline in Contaminant Concentration in Leachate

Antimony

c (kg/l): -0.1303

Non-Volatile

m (kg/l): 0.0763

Contaminant Half-lives (years)

Unsaturated Pathway:

Antimony

SINGLE(1e+009)

Background Concentrations of Contaminants

Justification for Contaminant Properties

Unjustified value

All units in milligrams per litre

Phase: Phase 1**Infiltration Information**

Cap design infiltration (mm/year):	TRIANGULAR(0.415,3.65,22.52)
Infiltration to waste (mm/year):	TRIANGULAR(454,609,810)
End of filling (years from start of waste deposit):	6

Justification for Specified Infiltration

Unjustified value

Duration of management control (years from the start of waste disposal): 6

Cell dimensions

Cell width (m):	525
Cell length (m):	325
Cell top area (ha):	25.5938
Cell base area (ha):	17.0625
Number of cells:	1
Total base area (ha):	17.0625
Total top area (ha):	25.5938
Head of Leachate when surface water breakout occurs (m)	SINGLE(0.1)
Waste porosity (fraction)	UNIFORM(0.324,0.397)
Final waste thickness (m):	TRIANGULAR(0.1,4,7)
Field capacity (fraction):	UNIFORM(0.1,0.2)
Waste dry density (kg/l)	UNIFORM(1.3,1.68)

Justification for Landfill Geometry

Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Antimony

TRIANGULAR(0.0048,0.0218,0.043)

Data are spot measurements of Leachate Quality

Justification for Species Concentration in Leachate

Unjustified value

Drainage Information

Fixed Head.

Head on EBS is given as (m):

SINGLE(0.1)

Justification for Specified Head

Unjustified value

Barrier Information

There is no barrier

Justification for Engineered Barrier Type

Unjustified value

Unsaturated Landfill material pathway parameters*Modelled as unsaturated pathway*

Pathway length (m):	TRIANGULAR(8.32,10.5,14.44)
Flow Model:	porous medium
Pathway moisture content (fraction):	TRIANGULAR(0.092,0.121,0.152)
Pathway Density (kg/l):	SINGLE(1.8)

Justification for Unsat Zone Geometry

Unjustified value

Pathway hydraulic conductivity values (m/s):	LOGUNIFORM(1e-010,1e-005)
--	---------------------------

Justification for Unsat Zone Hydraulics Properties

Unjustified value

Pathway longitudinal dispersivity (m):	TRIANGULAR(0.832,1.05,1.444)
--	------------------------------

Justification for Unsat Zone Dispersion Properties

Unjustified value

Retardation parameters for Unsaturated Landfill material pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):	
Antimony	LOGTRIANGULAR(1.26,251,501)

Justification for Kd Values by Species

Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(20,420)
Pathway width (m):	SINGLE(600)

pathway parameters

No Vertical Pathway

Northampton Sand Formation pathway parameters

Modelled as aquifer pathway.

Mixing zone (m): SINGLE(2.9)

Justification for Aquifer Geometry

Unjustified value

Pathway regional gradient (-): SINGLE(0.02)

Pathway hydraulic conductivity values (m/s): SINGLE(2.56e-006)

Pathway porosity (fraction): SINGLE(0.2)

Justification for Aquifer Hydraulics Properties

Unjustified value

Pathway longitudinal dispersivity (m): UNIFORM(2,42)

Pathway transverse dispersivity (m): SINGLE(18)

Justification for Aquifer Dispersion Details

Unjustified value

Retardation parameters for Northampton Sand Formation pathway

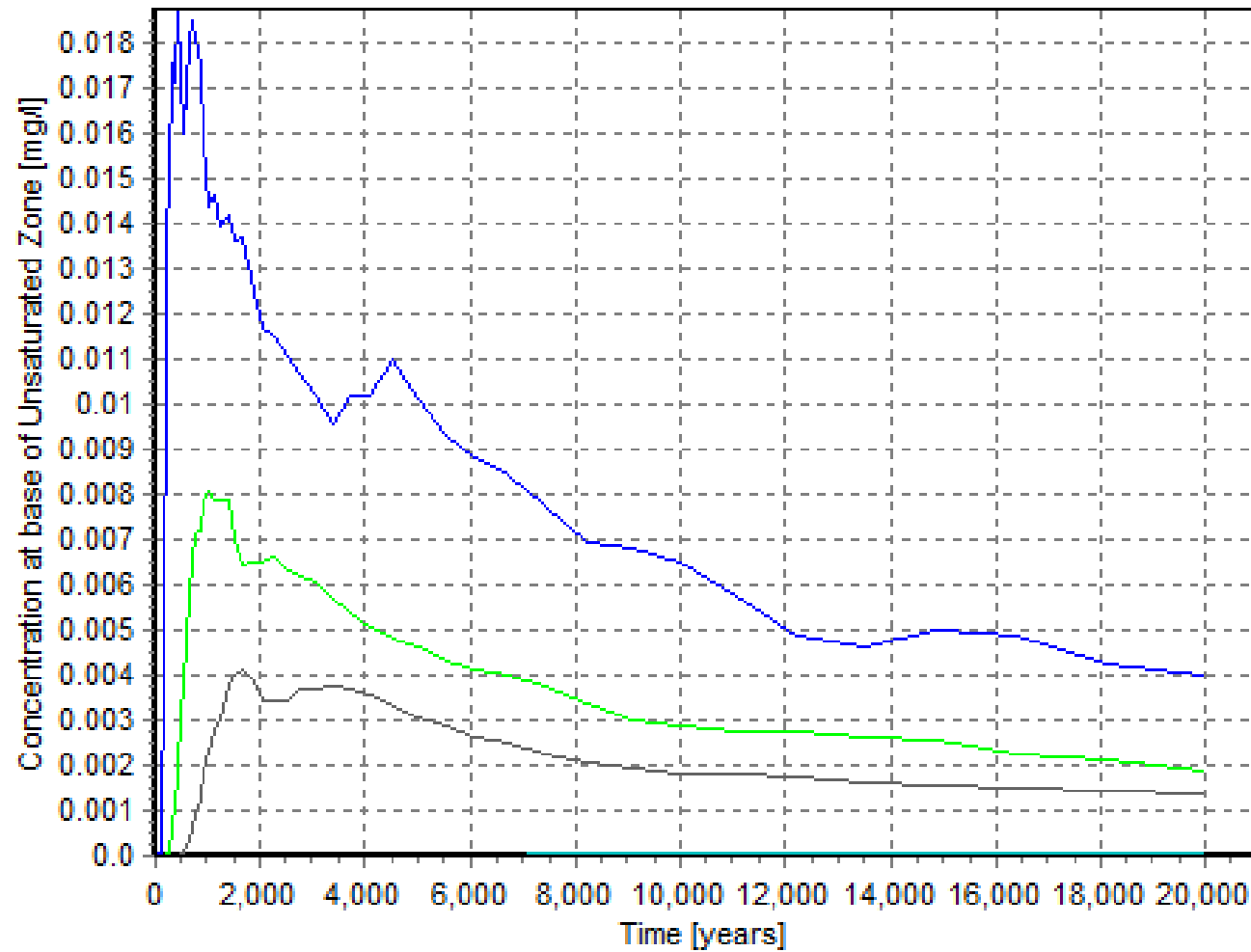
Modelled as aquifer pathway.

No retardation values used in this simulation.

Check 'Unretarded Contaminant Transport' setting under simulation preferences.

Baseline Scenario

Concentrations at base of unsaturated pathway

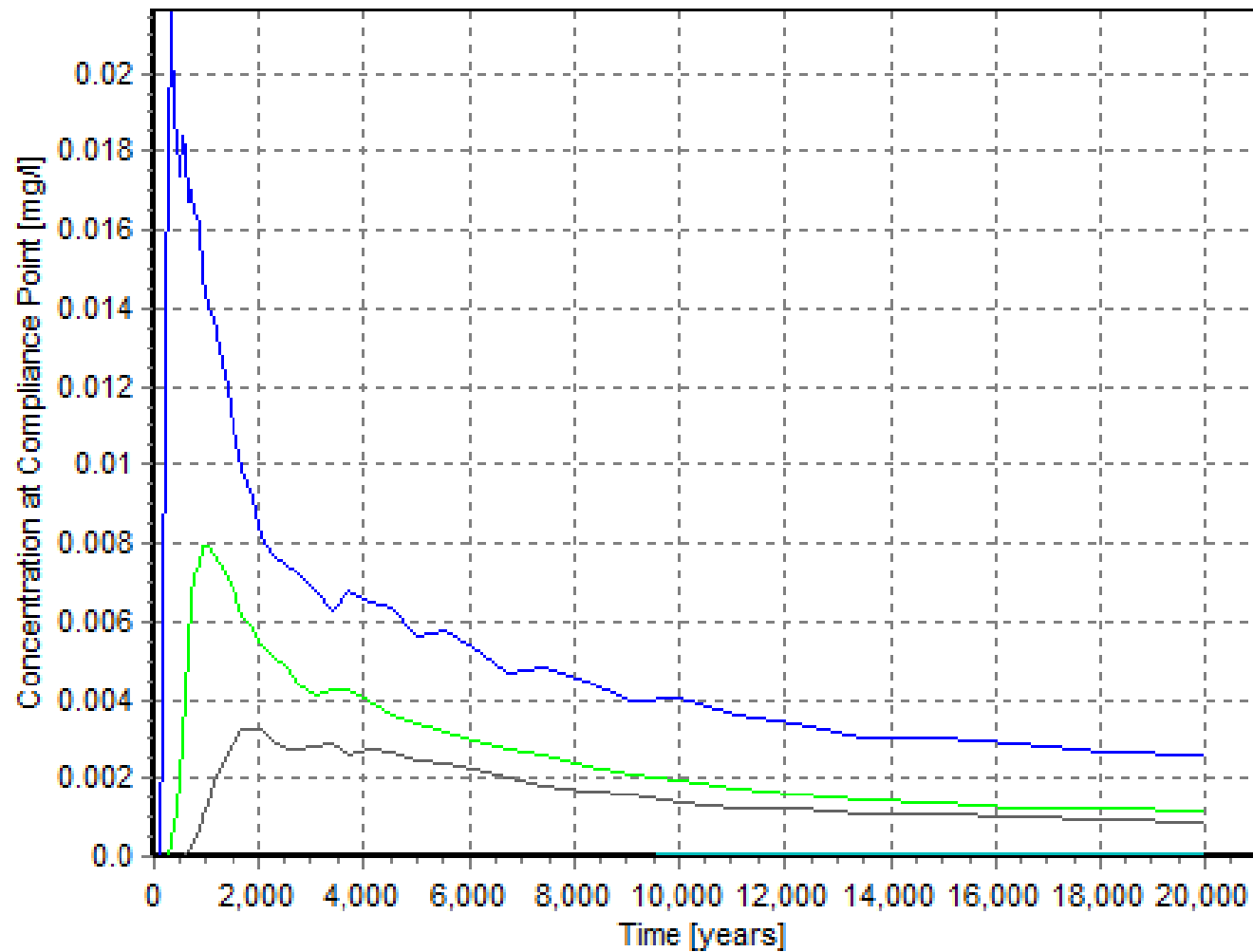


Percentiles

- ☒ 1st Percentile
- ☒ 5th Percentile
- ☒ 10th Percentile
- ☒ 50th Percentile
- ☒ 90th Percentile
- ☒ 95th Percentile
- ☒ 99th Percentile

Baseline Scenario

Concentrations at compliance point

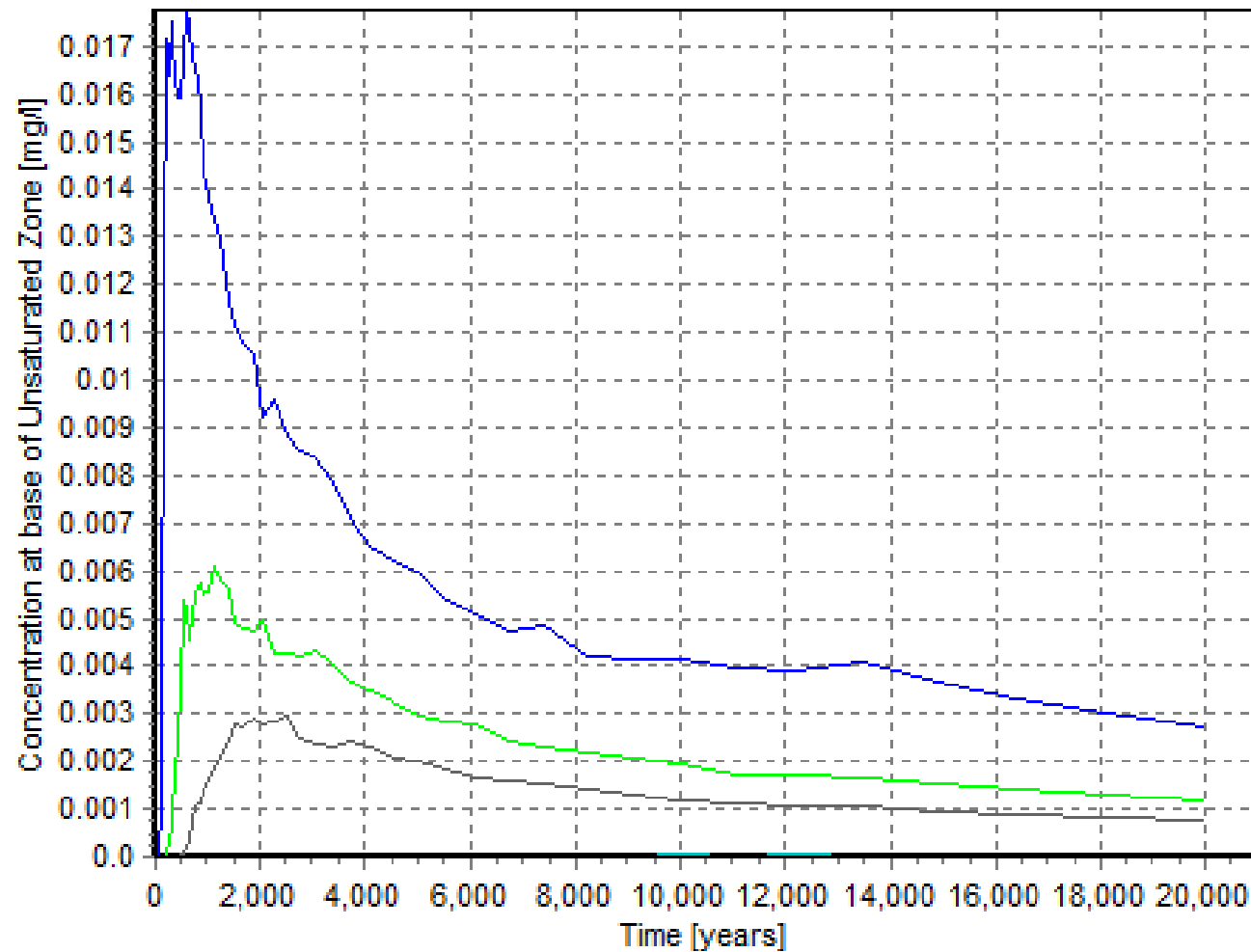


Percentiles

- ☒ 1st Percentile
- ☒ 5th Percentile
- ☒ 10th Percentile
- ☒ 50th Percentile
- ☒ 90th Percentile
- ☒ 95th Percentile
- ☒ 99th Percentile

Scenario 1: Reduced use of IBA

Concentrations at base of unsaturated zone

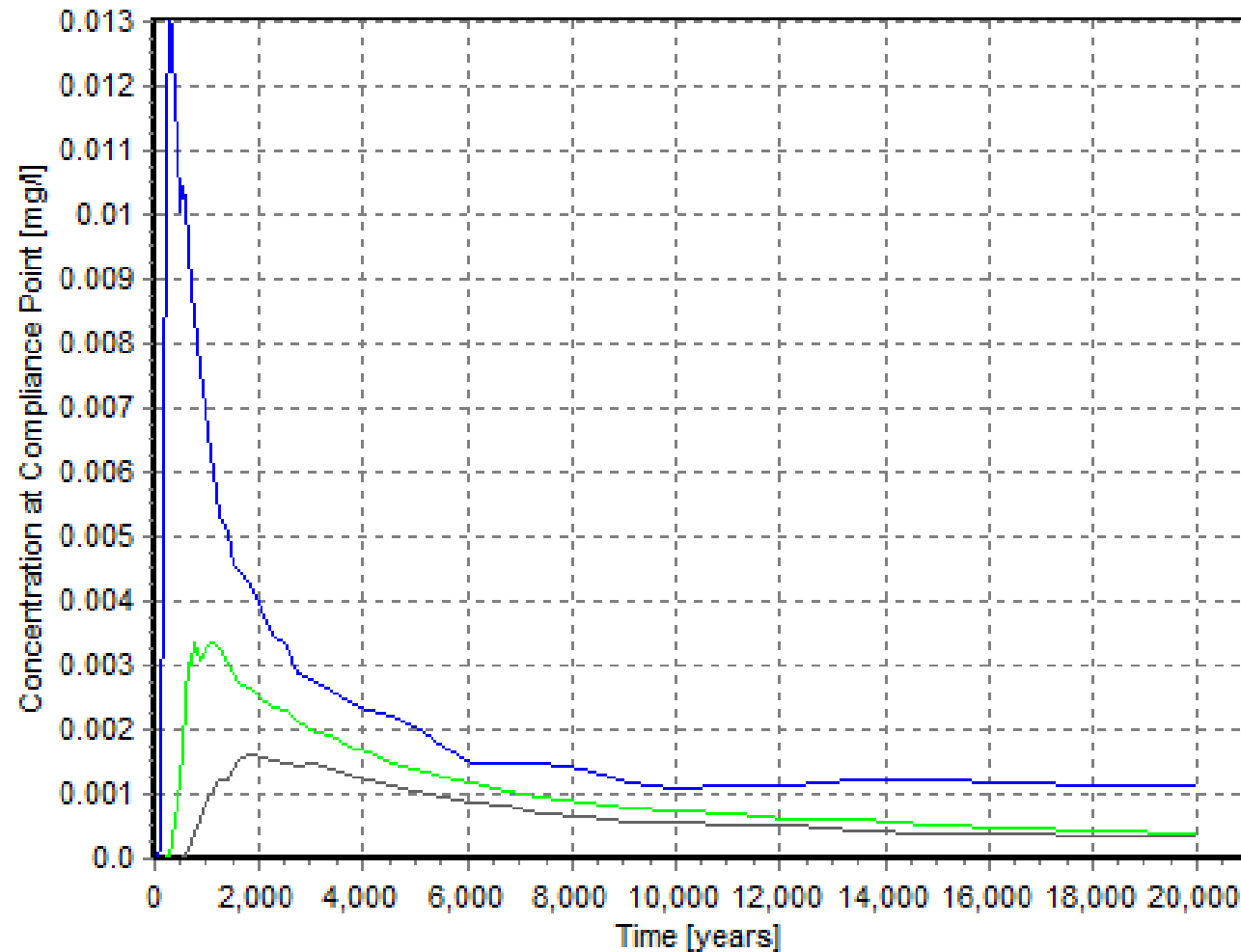


Percentiles

- ☒ 1st Percentile
- ☒ 5th Percentile
- ☒ 10th Percentile
- ☒ 50th Percentile
- ☒ 90th Percentile
- ☒ 95th Percentile
- ☒ 99th Percentile

Scenario 1: Reduced use of IBA

Concentrations at compliance point

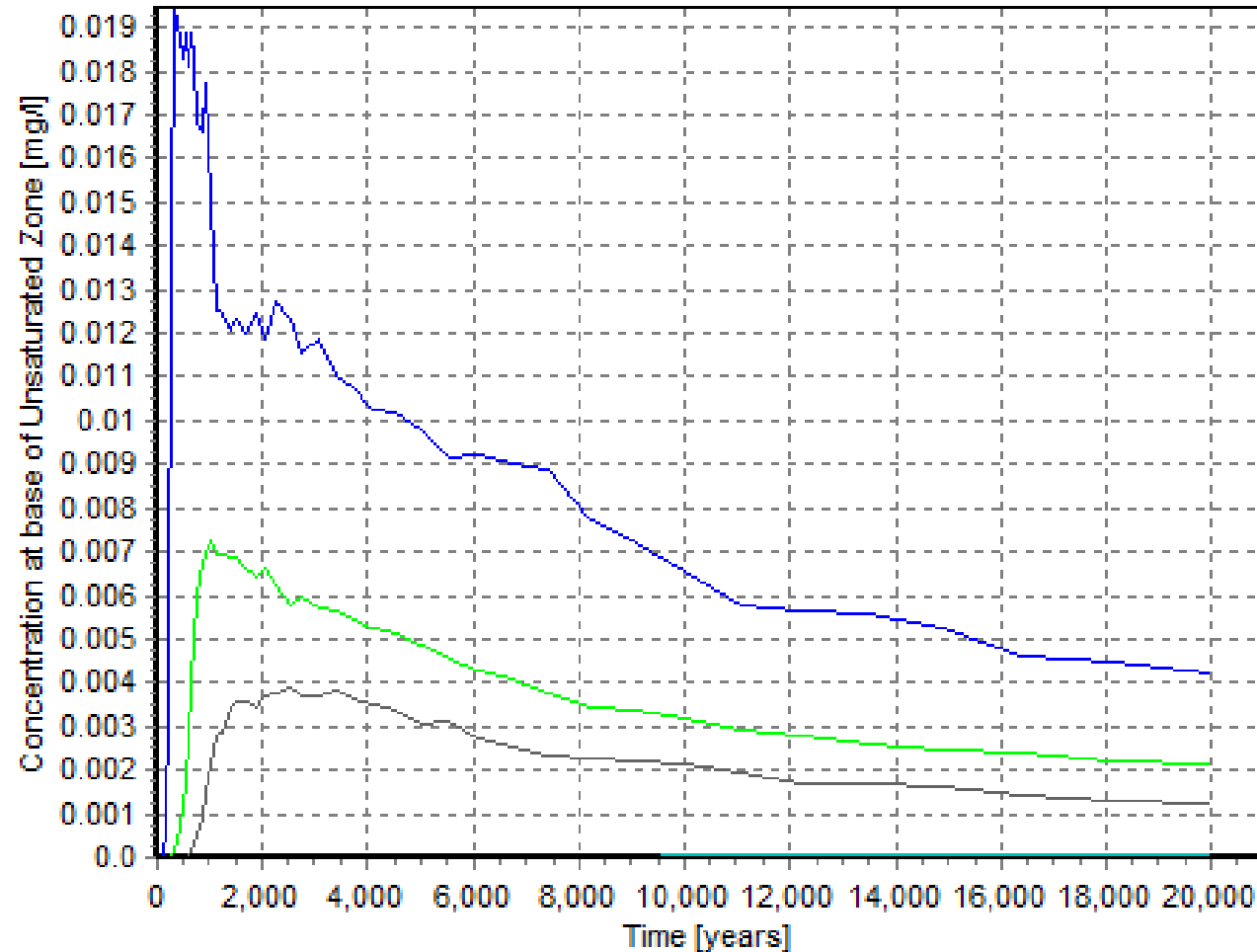


Percentiles

- ☒ 1st Percentile
- ☒ 5th Percentile
- ☒ 10th Percentile
- ☒ 50th Percentile
- ☒ 90th Percentile
- ☒ 95th Percentile
- ☒ 99th Percentile

Scenario 2: Extended filling period

Concentrations at base of unsaturated zone (4 years)

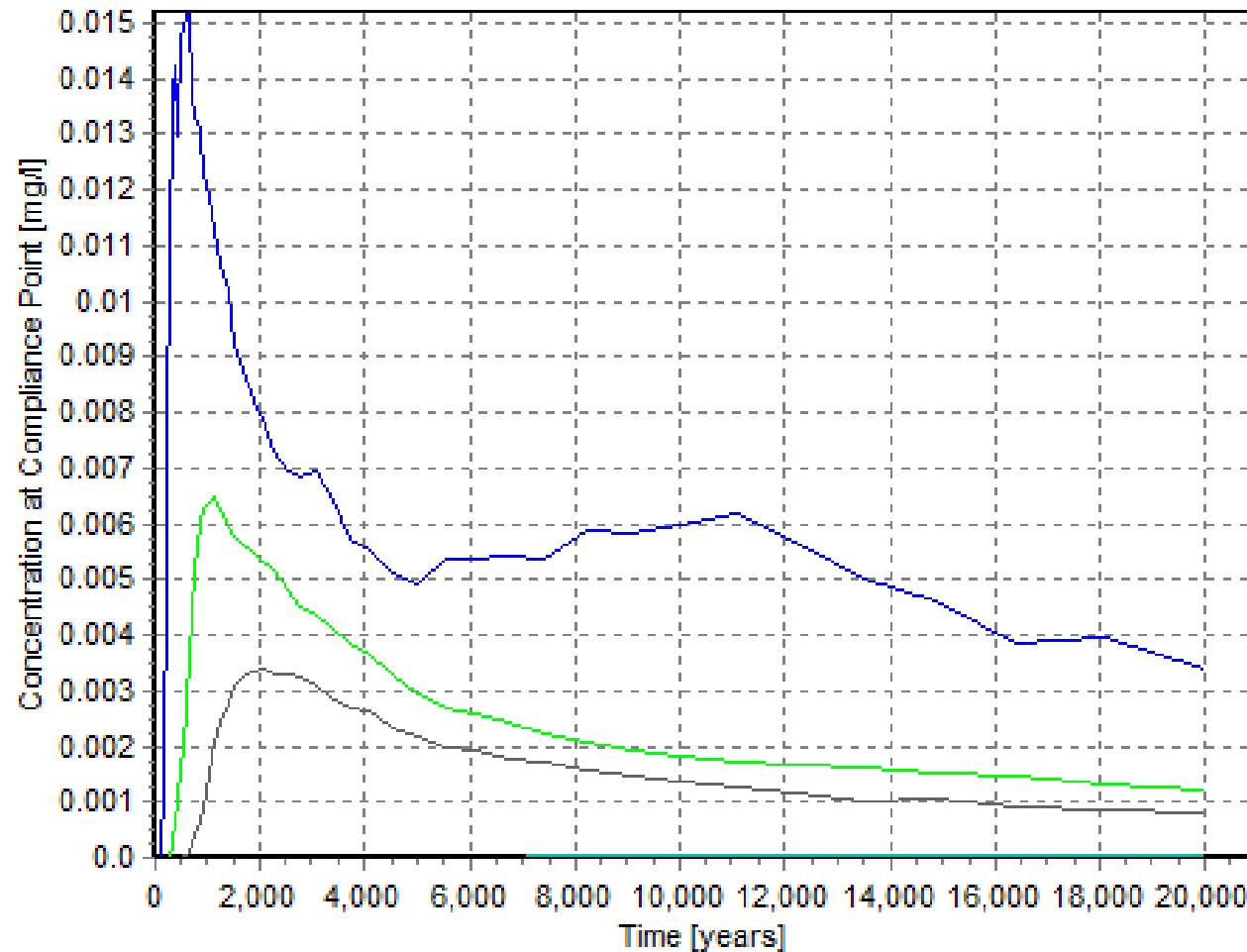


Percentiles

- ☒ 1st Percentile
- ☒ 5th Percentile
- ☒ 10th Percentile
- ☒ 50th Percentile
- ☒ 90th Percentile
- ☒ 95th Percentile
- ☒ 99th Percentile

Scenario 2: Extended filling period

Concentrations at compliance point (4 years)

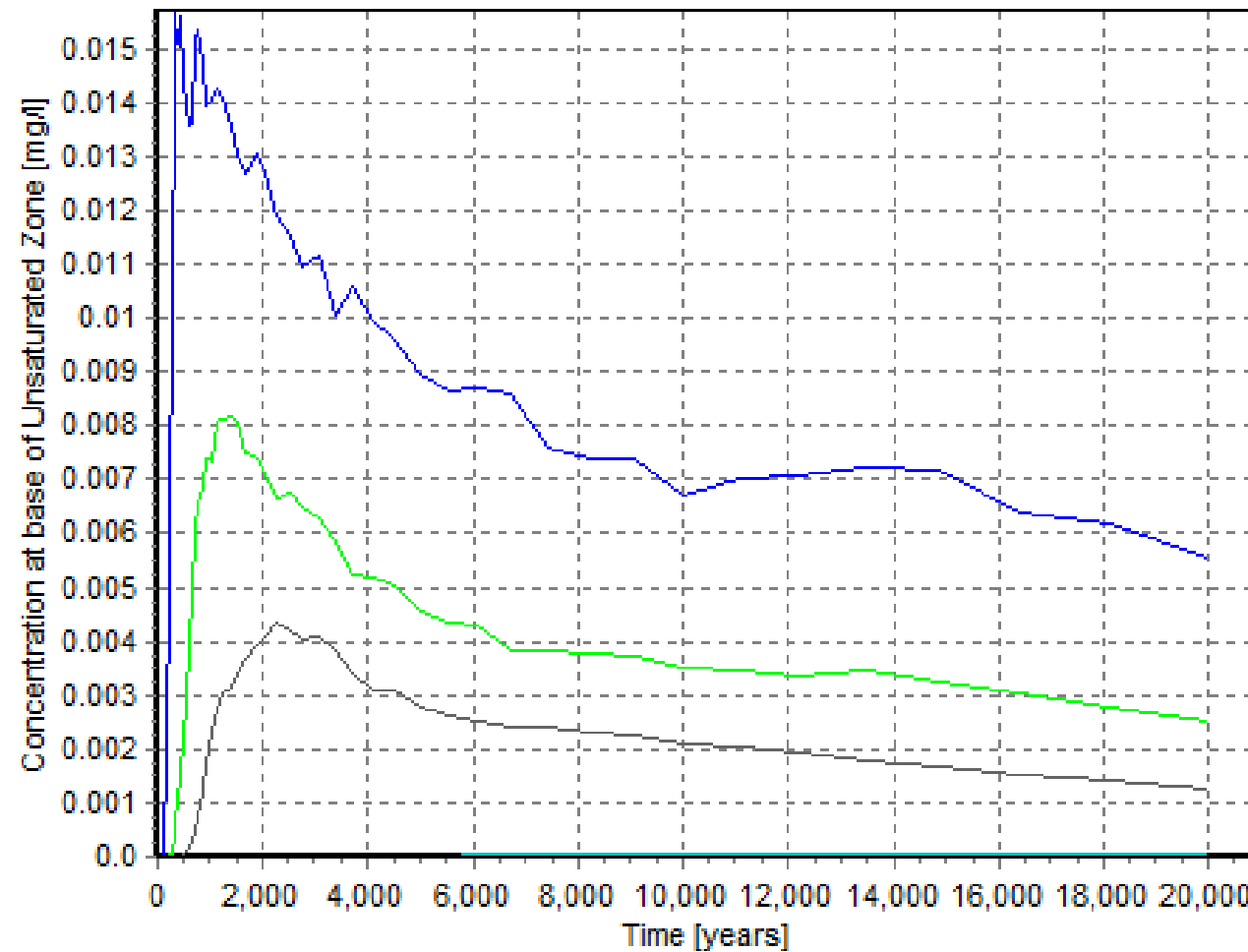


Percentiles

- ☒ 1st Percentile
- ☒ 5th Percentile
- ☒ 10th Percentile
- ☒ 50th Percentile
- ☒ 90th Percentile
- ☒ 95th Percentile
- ☒ 99th Percentile

Scenario 2: Extended filling period

Concentrations at base of unsaturated zone (7 years)

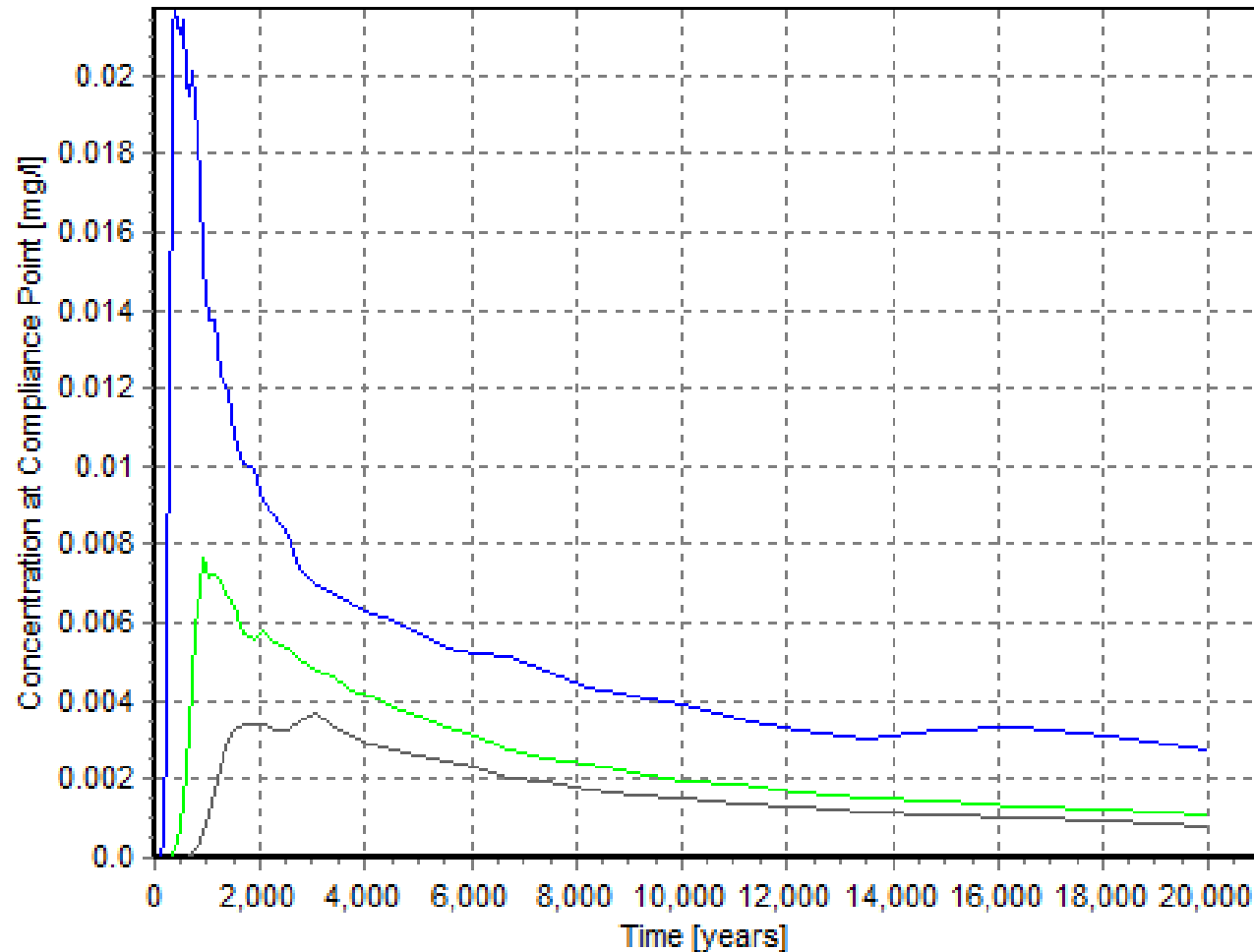


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- ☒ 5th Percentile
- ☒ 10th Percentile
- ☒ 50th Percentile
- ☒ 90th Percentile
- ☒ 95th Percentile
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Scenario 2: Extended filling period

Concentrations at compliance point (7 years)

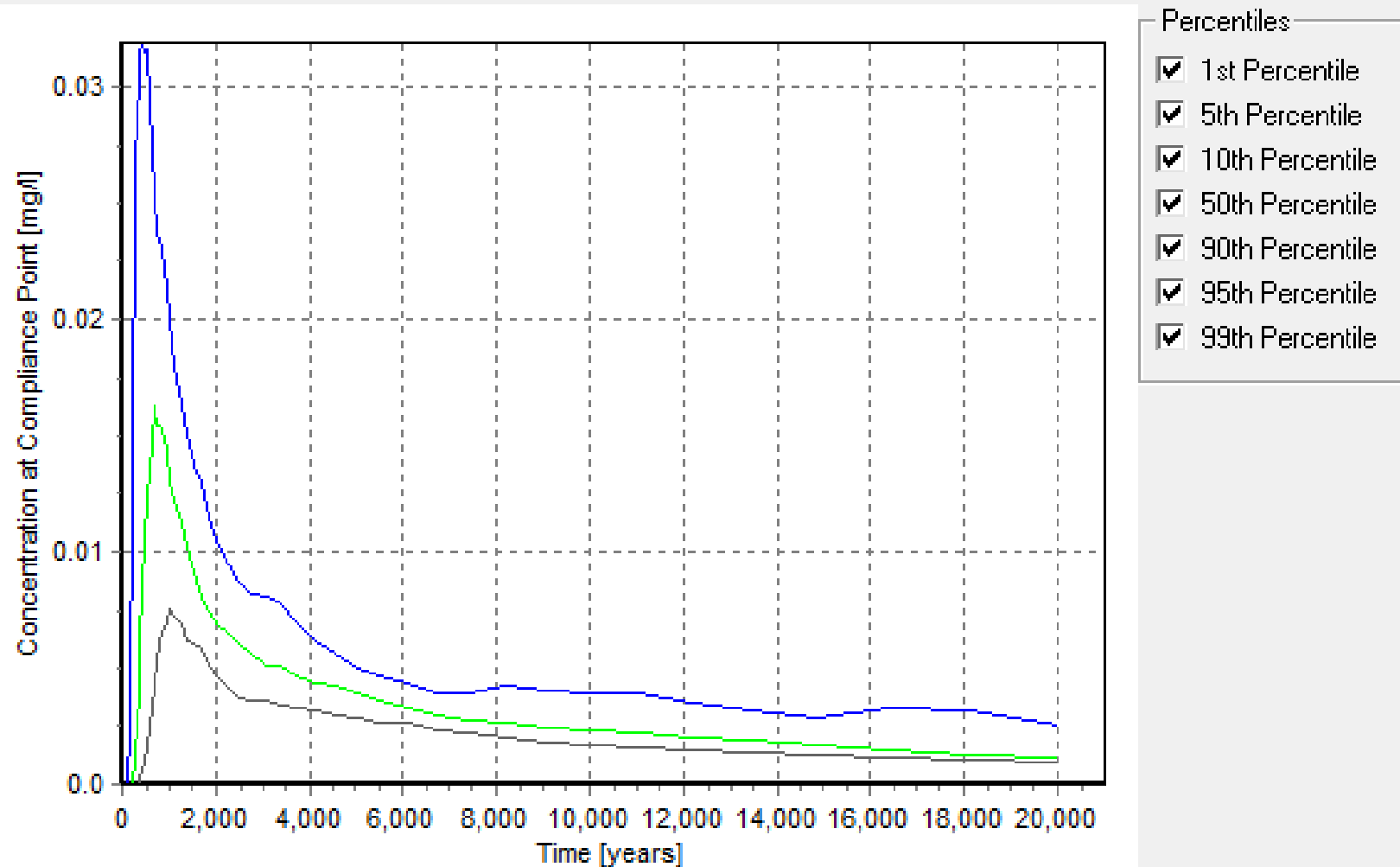


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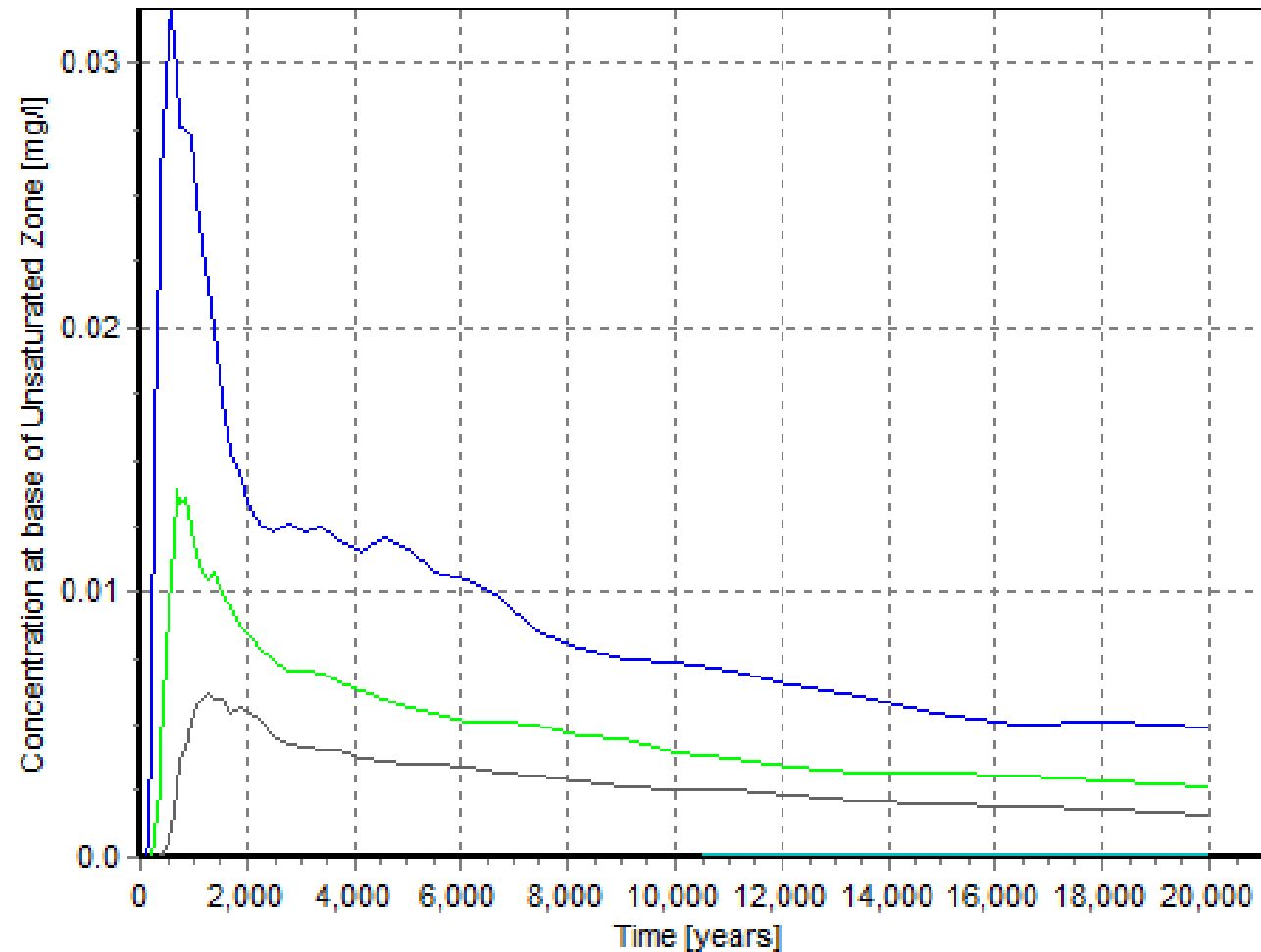
Scenario 2: Extended filling period

Concentrations at base of unsaturated zone (10 years)



Scenario 2: Extended filling period

Concentrations at compliance point (10 years)

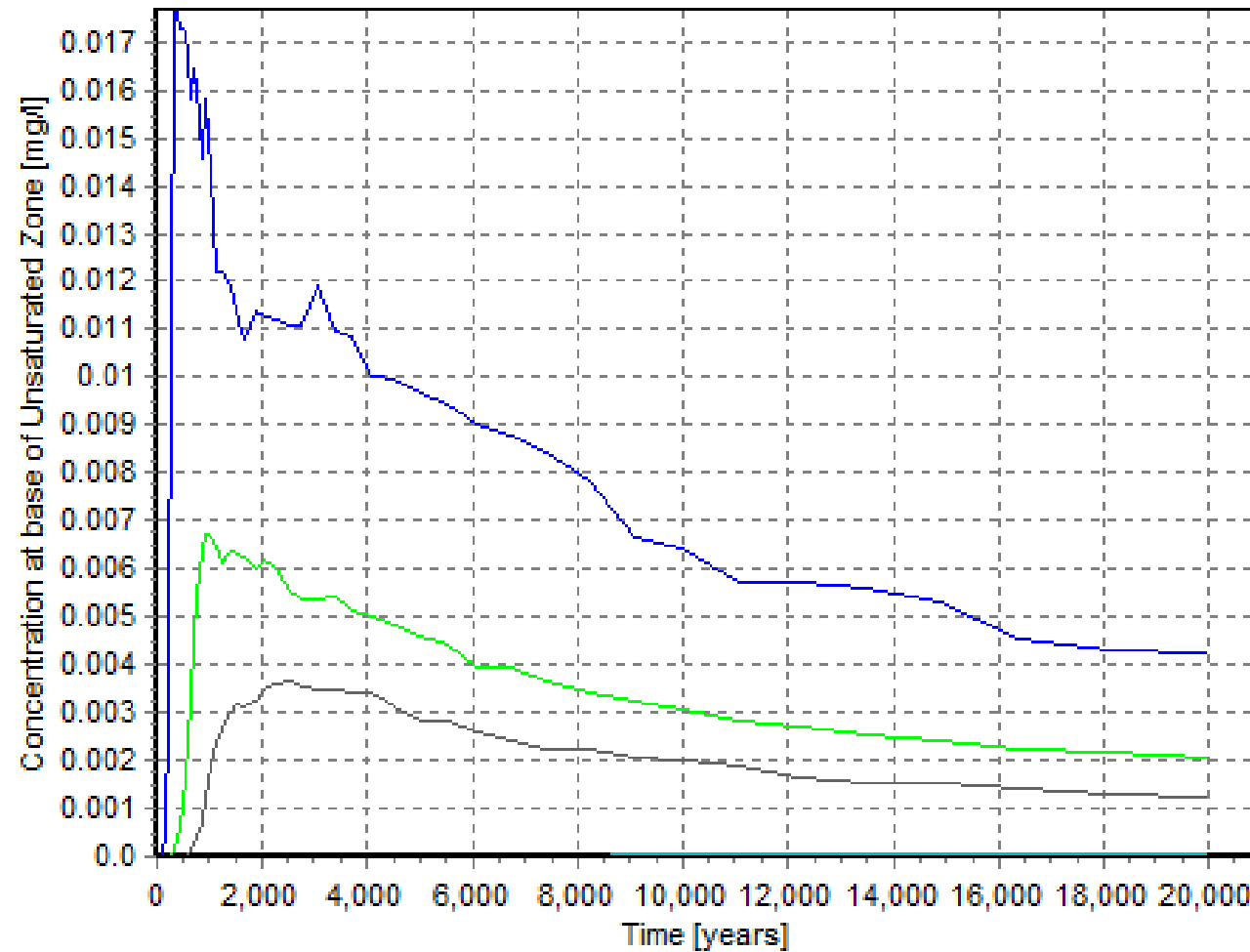


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Scenario 3: Compliance Point

Concentrations at base of unsaturated zone

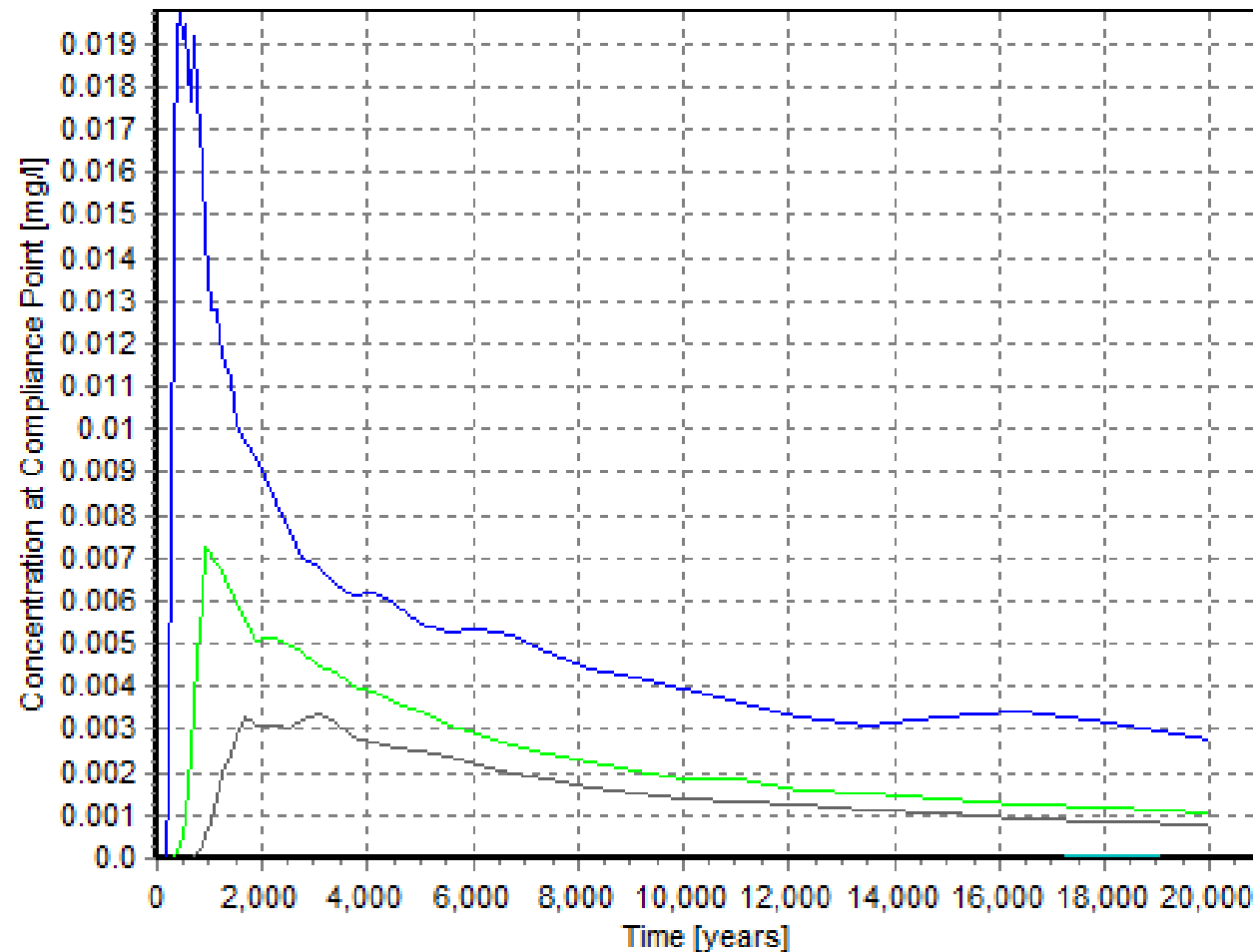


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Scenario 3: Compliance Point

Concentrations at compliance point

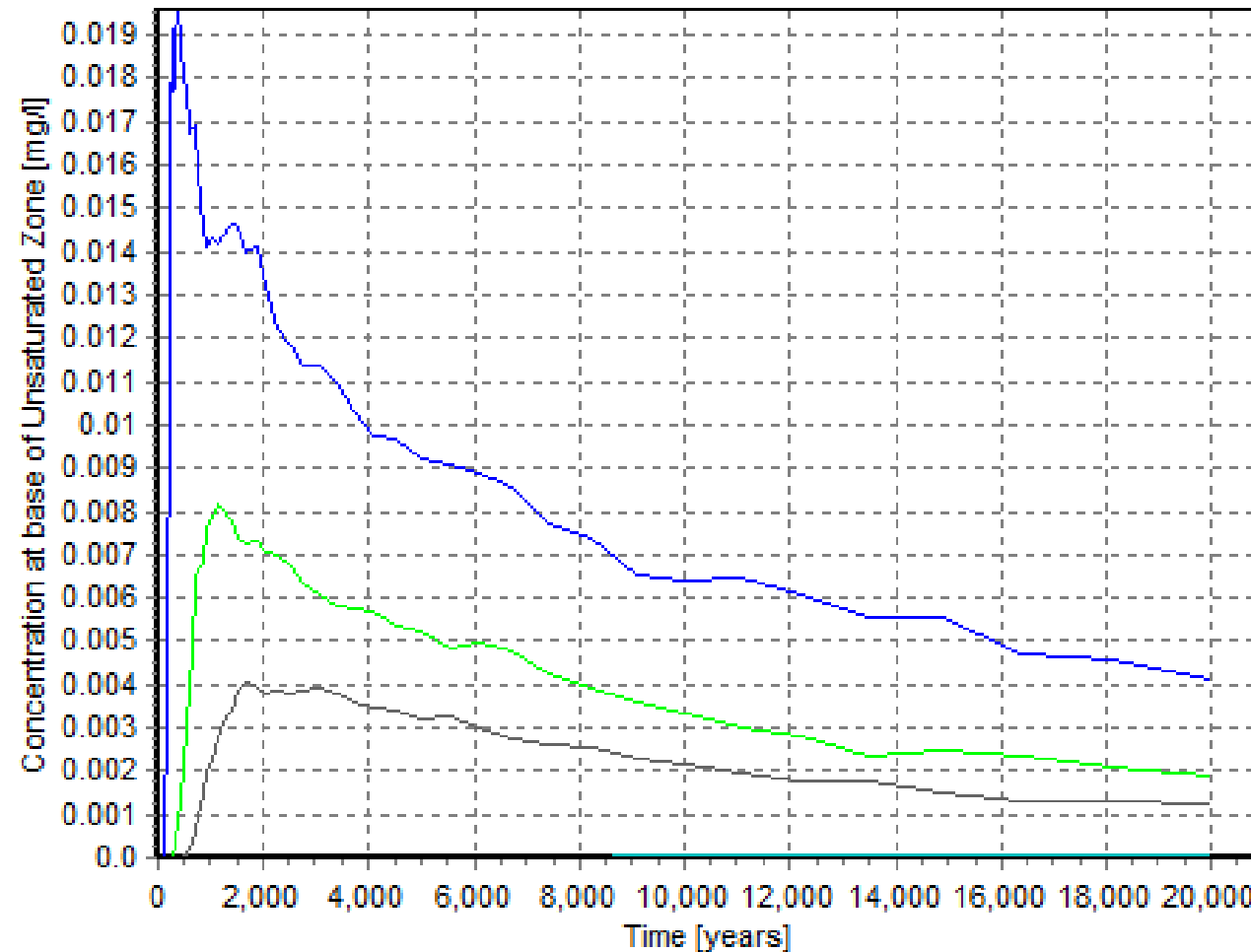


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Scenario 4: Waste Field Capacity

Concentrations at base of unsaturated zone

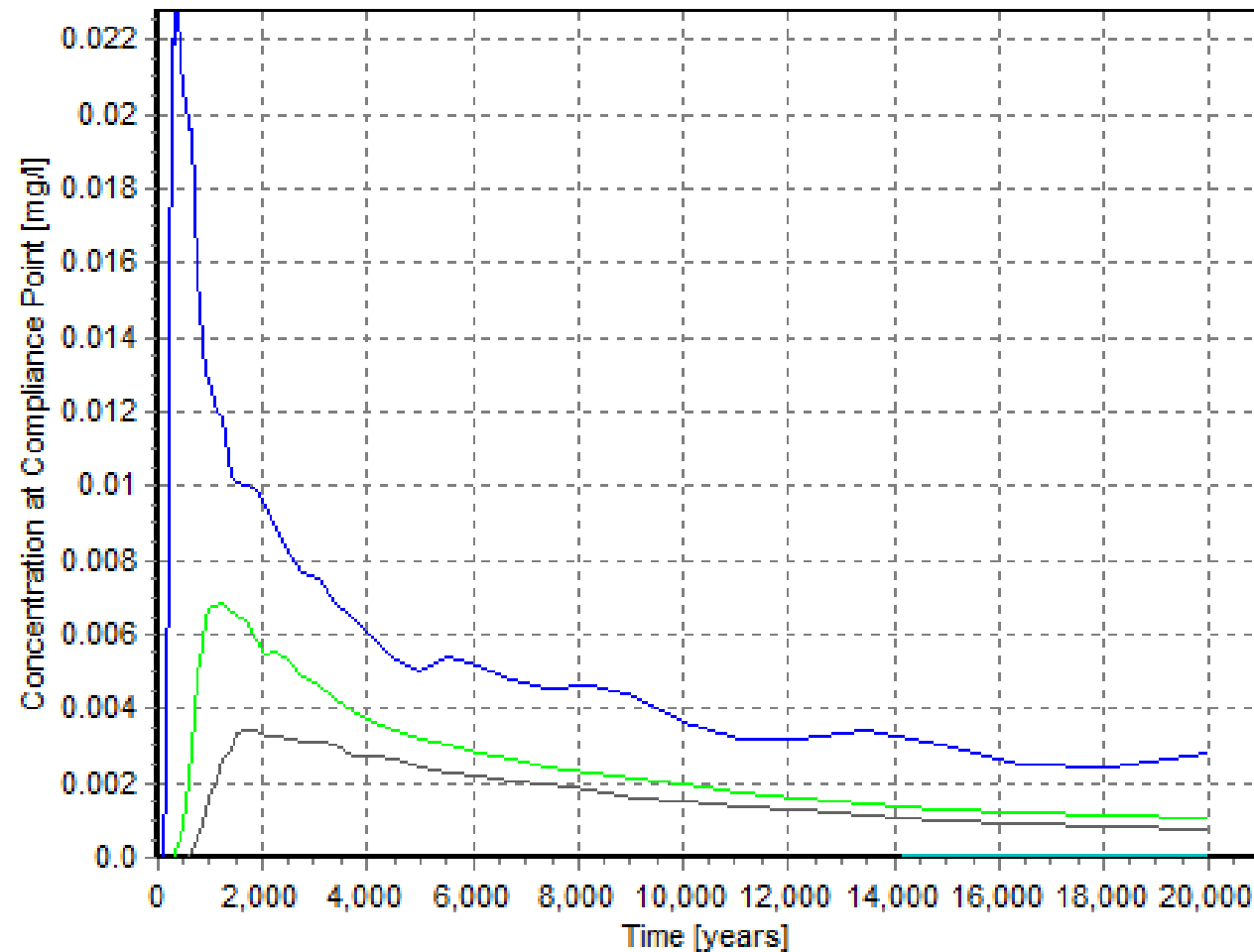


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Scenario 4: Waste Field Capacity

Concentrations at compliance point

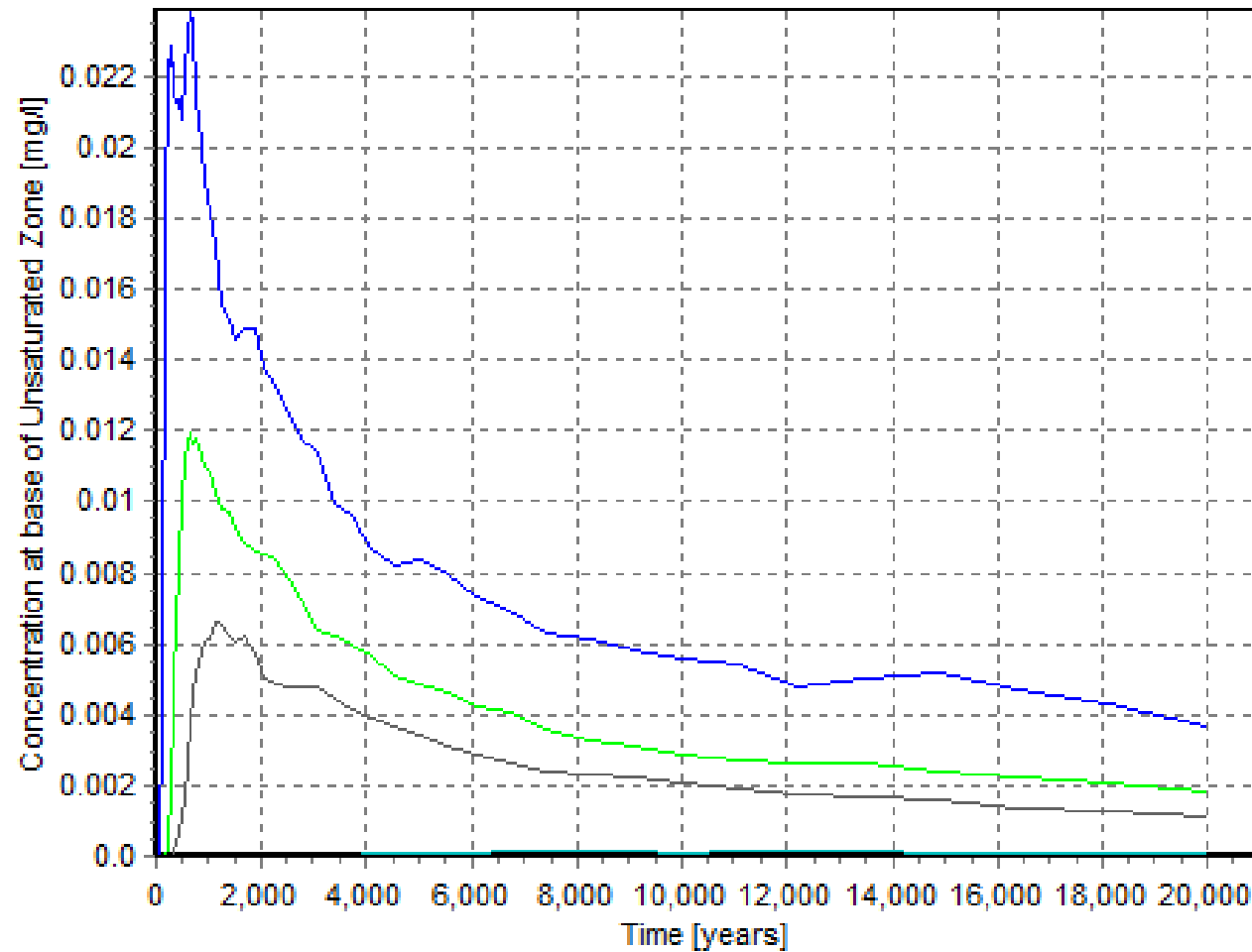


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Scenario 5: Waste Field Capacity

Concentrations at base of unsaturated zone (increased hydraulic conductivity)

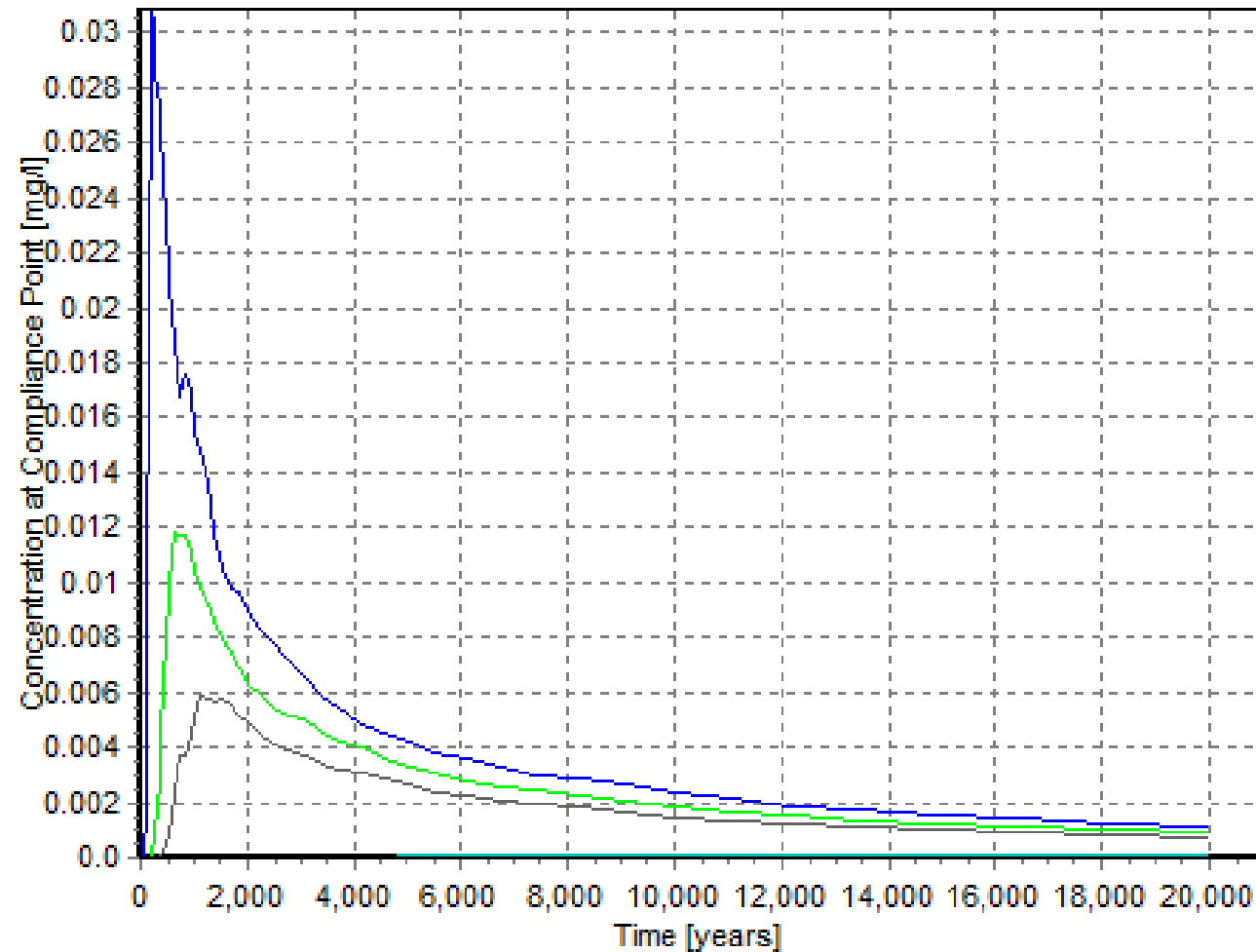


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Scenario 5: Waste Field Capacity

Concentrations at compliance point (increased hydraulic conductivity)

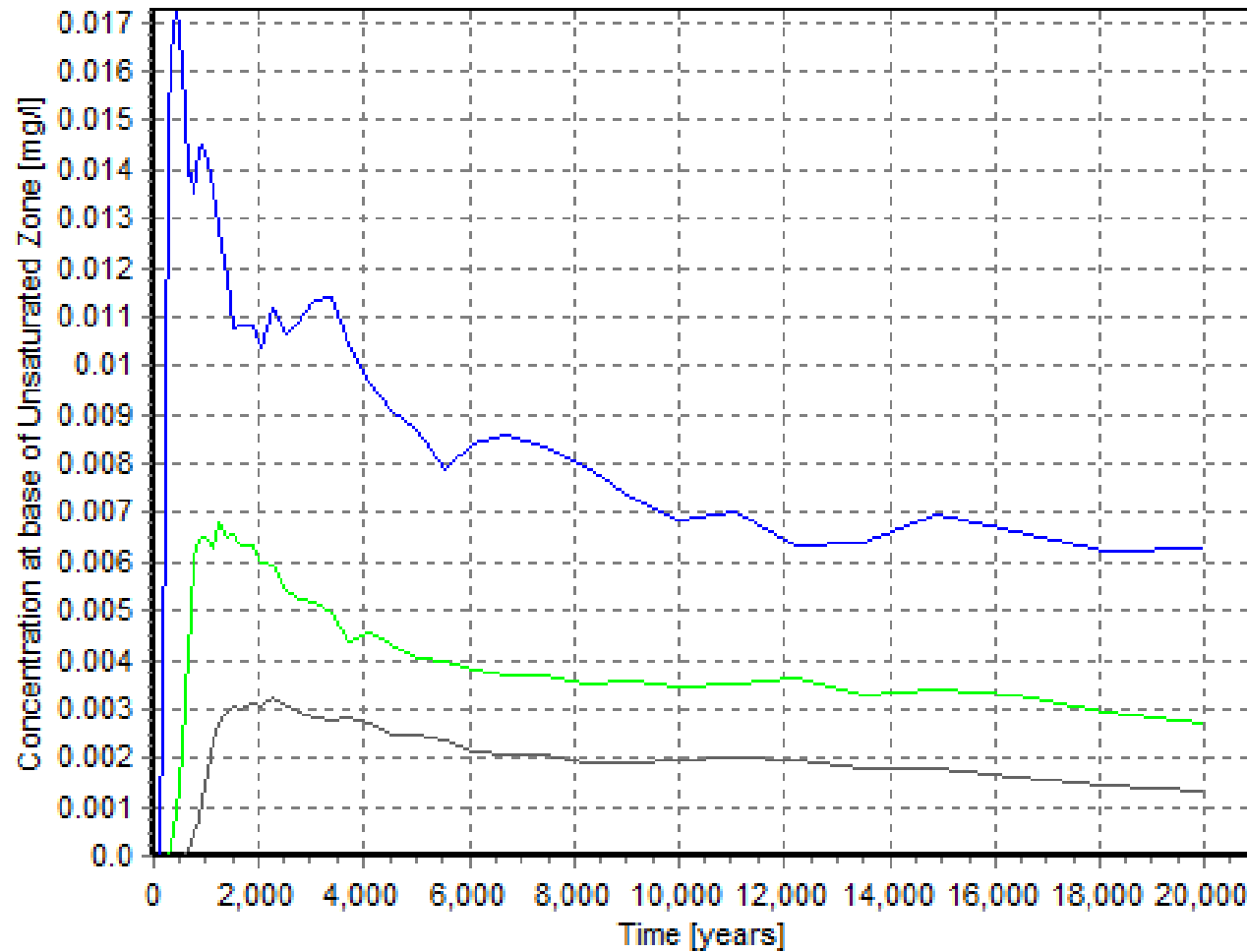


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Scenario 5: Waste Field Capacity

Concentrations at base of unsaturated zone (decreased hydraulic conductivity)

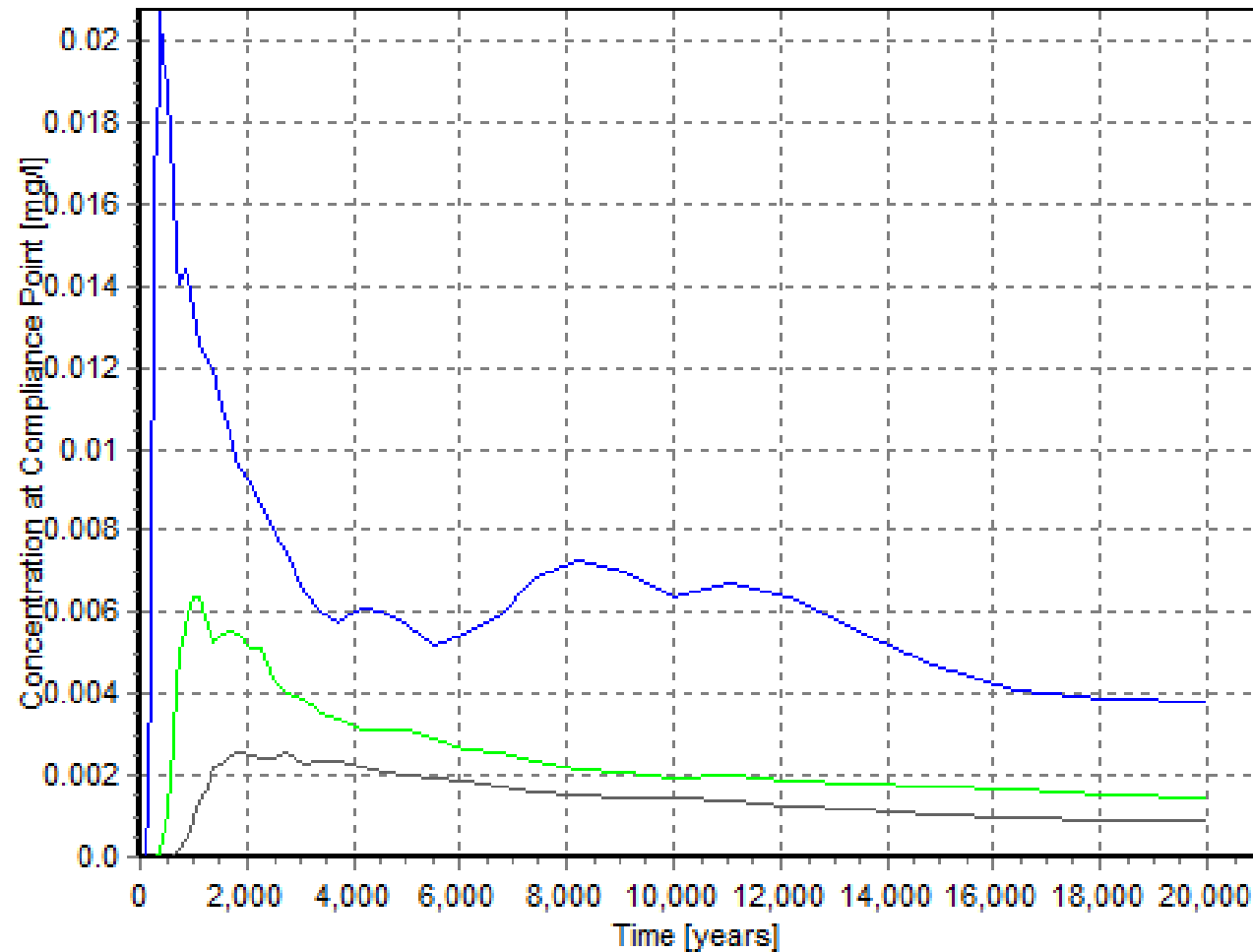


Percentiles

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- ☒ 95th Percentile
- ☒ 99th Percentile

Scenario 5: Waste Field Capacity

Concentrations at compliance point (decreased hydraulic conductivity)



Percentiles

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- ☒ 5th Percentile
- ☒ 10th Percentile
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- ☒ 90th Percentile
- ☒ 95th Percentile
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Appendix E Ground Stability Report

soiltechnics

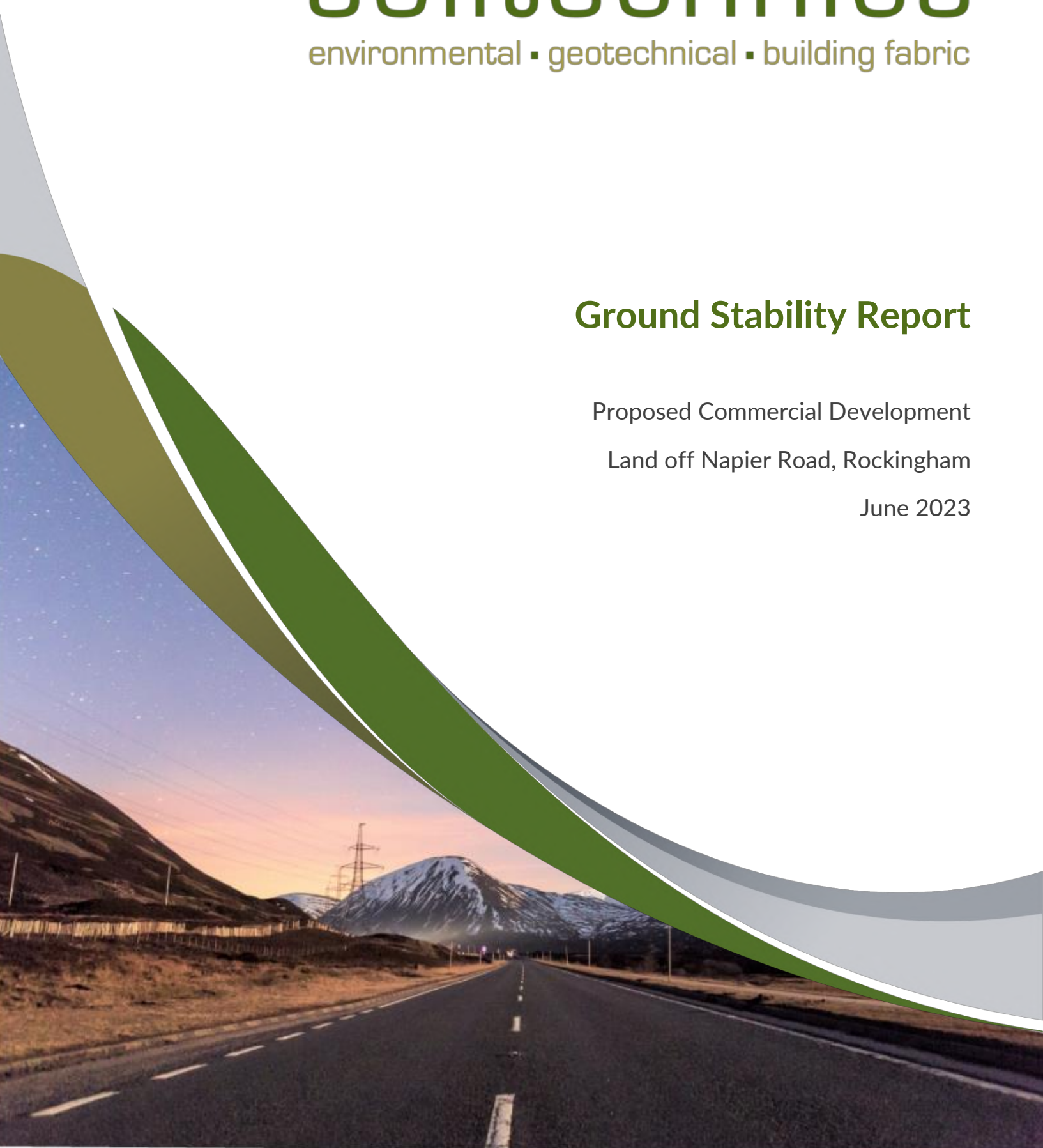
environmental • geotechnical • building fabric

Ground Stability Report

Proposed Commercial Development

Land off Napier Road, Rockingham

June 2023



Project Details

Site: Land off Napier Road, Rockingham

Document Title: Ground Stability Report

Document no.: STT1234-R01 Rev A

Date: June 2023

Client: Storefield Group Limited

Issuing office: Soiltechnics Ltd
Cedar Barn, White Lodge, Walgrave, Northampton. NN6 9PY
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Document history and status

Revision	Date	Description	Author	Reviewer
A	June 2023	First Issue	AW	SD



Table of Contents

1	Introduction	1
1.1	Background	1
1.2	Scheme Outline	2
1.3	Brief	2
1.4	Limitations	2
2	Ground Investigation	3
2.1	Objectives	3
2.2	Fieldwork summary	3
2.3	Sampling	4
2.4	In-situ Testing	4
2.5	Monitoring	4
3	Geotechnical Discussion	5
3.1	Scheme Overview	5
3.2	Geotechnical Category	5
3.3	Magnetic Extensometers	5
3.4	Vibrating Wire Piezometers	6
4	Conclusions and Recommendations	8
4.1	Settlement	8
4.2	Rate of filling	8
4.3	Collapse settlement	8
Appendix A	Drawings	
Appendix B	Exploratory Hole Logs: Boreholes	
Appendix C	In Situ Test Results	
Appendix D	Vibrating Wire Piezometer Monitoring	
Appendix E	Extensometer Monitoring	

Drawing Register

Title	Produced by	Date	Reference
Geotechnical monitoring installation location plan	Soiltechnics	June 2023	D-STP3966D-101

List of Tables

Table 1-A:	Summary geology	1
Table 2-A:	Summary of fieldwork undertaken	3
Table 2-B:	Summary of field testing undertaken	4
Table 2-C:	Summary of monitoring	4
Table 3-A:	Summary of extensometer interpretation	6

List of Figures

Figure 3-A:	Extract of extensometer monitoring results (BH101)	6
Figure 3-B:	Extract of vibrating wire piezometer monitoring results (BH102)	7

1 Introduction

1.1 Background

1.1.1 The site is an extensive, former quarry and closed landfill site to the northeast of Corby. The site is currently an undeveloped parcel of land to the north of an existing industrial development, north of Steel Road in Corby. Much of the site is overgrown with rough vegetation. Willowbrook (or North Brook), which drains the northern part of Corby follows the southern boundary, flowing east.

1.1.2 Maps published by the British Geological Survey record the original geology of the site comprised the following sequence of soils:

Stratum	Typical soil type	Thickness (m)
Glacial Till (Boulder Clays)	Clays with stones (glacial deposits)	3.50
Lincolnshire Limestone	Limestone	1.20
Lower Estuarine Series	Interbedded silts, clays and fine sands	7.60
Northampton Sand Formation	Ironstone	2.00
	Grey green sandstone	1.00

Table 1-A: Summary geology

1.1.3 The area was subject to opencast extraction of the iron rich deposits of the Northampton Sands (as a source of iron ore) in the 1940s / 1950s forming part of Dene Quarry. Based on the above, the quarry was probably about 14m deep, and typically the 'overburden' soils (comprising Boulder Clays, Limestone and Estuarines) would have been used to backfill the excavation following removal of the iron ore. The grey green sandstone below the ironstone which typically had little iron content was generally left in place. The backfills would have not been compacted.

1.1.4 A ground investigation was undertaken by Soiltechnics at the site in 2020 which confirms the general sequence described above and thickness of backfilled material.

1.1.5 Subsequent to quarrying activities, the southern part of the site was occupied by Candy filter sludge ponds, with North brook lagoons to the east. These ponds / lagoons were licenced (by the British Steel Corporation) in the mid-1980s to receive industrial and special waste, and liquid sludge.

1.1.6 Records show the site was occupied by waste management facilities licenced to Corby Borough Council, Corus UK Ltd, and Tata Steel, between the mid-1980s until around 2010. These facilities included management of industrial and household wastes.

1.1.7 It is understood that the lagoons were emptied by Tata Steel in recent years.

1.1.8 A topographical survey of the site shows site levels are low compared with perimeter site boundary levels to the north. Access to the site can be achieved from link roads to Steel Road to the south, Napier Road to the west, and a new link road (Mitchell Road) to the north.

1.2 Scheme Outline

- 1.2.1 The site is circa 8-10m lower than the link road to the north. The scheme comprises the development of an engineered platform at the site to facilitate future development as part of the Rockingham Enterprise Area.
- 1.2.2 Due to the previous site history and nature of soils already present on site, the proposed solution is to raise site levels with inert fill to a new finished ground level (FGL). The site will then be raised further to surcharge the newly placed fill and existing quarry backfill. The surcharge will then be removed and levels reduced to FGL.
- 1.2.3 This report is based on the project proposals and information outlined above; should the scheme change then it will be necessary to review the conclusions and recommendations presented in this report.

1.3 Brief

- 1.3.1 This report has been prepared following instructions received from our Client, Storefield Group Limited. The overall brief of works is to assess the geotechnical viability of developing an engineered platform. The environmental impacts are beyond the scope of this report.
- 1.3.2 The objectives of this report are outlined below:
- i) Summarise the intrusive investigation works undertaken and post fieldwork monitoring.
 - ii) Provide a geotechnical appraisal of the monitoring and comment on the geotechnical viability of the scheme.

1.4 Limitations

- 1.4.1 Soiltechnics disclaims any responsibility to our Client and others in respect of any matters outside the scope of this report. This report has been prepared with reasonable skill, care and diligence in accordance with the terms of our contract, taking account of the manpower, resources, investigations and testing devoted to it by agreement with our Client. This report is confidential to our Client and Soiltechnics accepts no responsibility of whatsoever nature to third parties to whom this report or any part thereof is made known. Any such party relies upon the report at their own risk.

2 Ground Investigation

2.1 Objectives

- 2.1.1 In order to assess the viability of a surcharging approach it was agreed that an instrument trial embankment would be constructed. The embankment would be monitored to establish the order of magnitude of settlement which could be anticipated for the project and the likely time it would take for substantial settlement to occur.
- 2.1.2 The ground investigation scope and location of exploratory holes was determined by Soiltechnics Ltd, based upon our overall brief.
- 2.1.3 The objectives of the fieldwork were to:
- Install three vibrating wire piezometers and three extensometers at the location of the trial embankment.
 - Extend the monitoring installations as the trial embankment was constructed.
 - Undertake monitoring Install gas and groundwater monitoring wells and undertake a series of monitoring visits before, during and after embankment construction.

2.2 Fieldwork summary

- 2.2.1 Fieldwork was undertaken between 10th May and 18th May 2022 and is summarised below. Exploratory hole logs are presented as Appendix B. An exploratory hole location plan is presented in Appendix A.

Exploratory Hole	Method	Installation	Depth (m bgl)	Comments
BH101	Rotary	Extensometer	20.00	Open hole drilling – no recovery.
BH102	Rotary	Vibrating wire piezometer	15.00	Open hole drilling – no recovery.
BH103	Rotary	Extensometer	21.50	Open hole drilling – no recovery.
BH104	Cable percussion	Vibrating wire piezometer	15.38	Suspected natural ground encountered at 95.23m AOD
BH105	Cable percussion	Vibrating wire piezometer	13.21	Suspected natural ground encountered at 95.23m AOD
BH106	Rotary	Extensometer	20.00	Open hole drilling – no recovery.

Table 2-A: Summary of fieldwork undertaken

- 2.2.2 All soils encountered were described in accordance with BS EN ISO 14688 “Identification and Classification of soil”. Rock was described in accordance with BS EN ISO 14689 “Identification and classification of rock”.
- 2.2.3 The trial embankment was constructed by the Client and was approximately 20m x 40m in plan area and 4m high. It was constructed between 19 August and 02 September 2022. The soil was placed in layers and compacted prior to placing the next layer. During construction of the trial embankment the installations were extended commensurate with the rate of filling.

2.3 Sampling

- 2.3.1 During the fieldwork, sampling of soil, rock and groundwater for geotechnical purposes has been undertaken in accordance with BS EN ISO 22475-1 *“Geotechnical Investigation and testing – sampling by drilling and excavation and groundwater measurements”*.
- 2.3.2 Samples collected for chemical analysis have been taken and handled in accordance with BS ISO 18400-105:2017 *“Soil quality — Sampling Part 105: Packaging, transport, storage and preservation of samples”*.
- 2.3.3 Various sampling and sub-sampling methodologies have been adopted as appropriate, with the primary aim of obtaining the highest quality sample class practicable.

2.4 In-situ Testing

- 2.4.1 The following table summarises the field testing carried out. The results are summarised on individual exploratory hole logs where appropriate and detailed within the Appendices indicated.

Tests	Qty	Applicable standard / guidance	Location of Results
Standard penetration test (SPT)	18	BS EN ISO 22476-3	Included within logs Detailed in Appendix C

Table 2-B: Summary of field testing undertaken

2.5 Monitoring

- 2.5.1 A summary of the monitoring visits undertaken is outlined in the table below. Results of the vibrating wire piezometers and extensometers are presented in Appendix D and Appendix E respectively.

Date	Purpose
17/05/2022 – 11/07/2022 6 no. visits	Provide baseline monitoring data prior to construction of trial embankment
18/08/2022 – 02/09/2022 6 no. visits	Monitoring during construction of trial embankment
09/09/2022 – 20/06/2023 20 no. visits	Post construction monitoring

Table 2-C: Summary of monitoring

3 Geotechnical Discussion

3.1 Scheme Overview

- 3.1.1 The following assessments are made on the investigatory data presented in the preceding sections of this report and are made with reference to the specific nature of the development. Should scheme proposals change then it is recommended that the validity of the conclusions of this report in relation to the revised scheme are checked.
- 3.1.2 The project will comprise the raising of site levels to provide an engineered platform to facilitate future development. The site will be surcharged to induce settlement. The surcharge will then be removed and levels reduced to the design finished ground level.
- 3.1.3 In view of the ground conditions, the following list summarises the key geotechnical issues that may impact the scheme and will therefore need to be appropriately managed during the lifecycle of the project:
- Excessive total and differential settlement of the existing Made Ground
 - Time for settlement to occur

3.2 Geotechnical Category

- 3.2.1 In accordance with BS EN1997-1:2004 + A1:2013 (Eurocode 7), the project is designated as Geotechnical Category 2. This category includes projects with *conventional types of structures and foundations with no exceptional risk, or difficult ground or loading conditions*. Furthermore, *routine design procedures* are appropriate.
- 3.2.2 It should be noted that this Report does not constitute a Geotechnical Design Report (GDR) as defined in Eurocode 7. Accordingly, a GDR should be prepared by the designer during the detailed design phase.

3.3 Magnetic Extensometers

- 3.3.1 The existing Made Ground at the site is conjectured to have been subject to minimal compaction when it was placed. Consequently, the soil will experience notable settlement as the levels are raised, and when the future development buildings are constructed.
- 3.3.2 A series of three extensometers were installed to monitor the settlement response of the soil to increased loading in the form of a trial embankment. The results are presented in Appendix E. An extract of the results from BH101 is presented as Figure 3-A. It should be noted that Day 0 refers to date of initial reading and therefore prior to construction of the trial embankment. Furthermore, each series label refers to the initial depth to the magnet prior to construction of the trial embankment.
- 3.3.3 The effect of construction of the trial embankment is clearly visible at circa Day 95. By Day 100 the settlement of the uppermost magnet (black) has already reached 40mm. It is estimated that immediate settlement is complete by circa Day 108 where approximately 55mm of settlement has occurred. Approximately 20mm of consolidation settlement is estimated to occur and be complete by circa Day 300. Creep settlement continues beyond this time but is <5mm and therefore considered negligible.

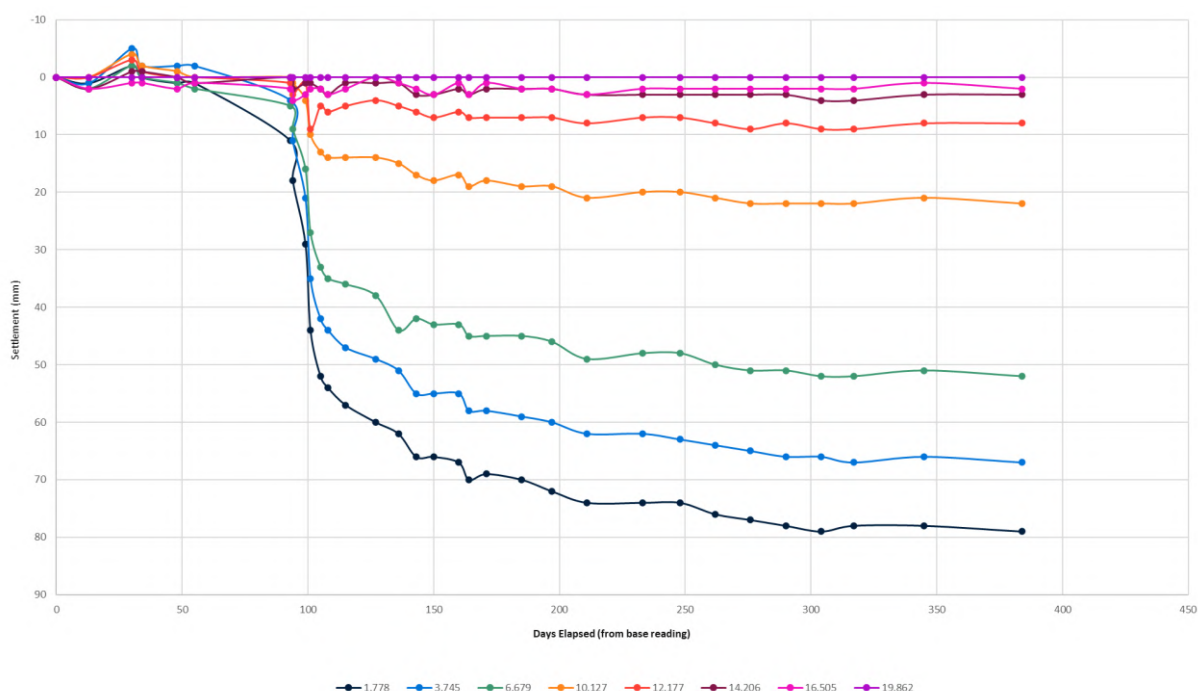


Figure 3-A: Extract of extensometer monitoring results (BH101)

- 3.3.4 The interpretation from the extensometers BH103 and BH106 is summarised below alongside BH101 for completeness. It should be noted that settlement values quoted are for the uppermost magnet which is considered to be representative of original ground level.

Extensometer	Immediate settlement	Consolidation settlement	Creep settlement
BH101	55mm over 10-15 days	20mm over 200 days	<5mm over 75 days to date
BH103	50mm over 10-15 days	25mm over 140 days	<5mm over 135 days to date
BH106	60mm over 10-15 days	See discussion below	

Table 3-A: Summary of extensometer interpretation

- 3.3.5 BH106 became unserviceable below 15.529m BGL after 21/09/2022. The cause is unknown. It was therefore not possible to monitor the datum magnet at the base of the borehole after this date. Normally this would render the installation redundant as movement is calculated by determining the difference between the datum magnet and magnet of interest. However, in order to provide indicative information on the movement of the upper magnets, and as settlement of the base magnet has been stable in the remaining boreholes, the last recorded value of the datum magnet has been used for comparison with higher magnet readings after 21/09/2022 in BH106. These results should be viewed with conservatism.

3.4 Vibrating Wire Piezometers

- 3.4.1 Vibrating wire piezometers were installed below the trial embankment to measure the pore water pressure response to upfilling.
- 3.4.2 In a clay soil the expected response would be a sudden rise in pore water pressure followed by a decay back to the original pressure level. The rate of decay is a function of the permeability of the soil. In a granular soil the drainage is instantaneous due to high permeability and consequently there is no rise in pore pressure nor subsequent decay.

3.4.3 The monitoring results of the vibrating wire piezometers are presented as Appendix D. An extract of the results from BH102 is presented as Figure 3-B.

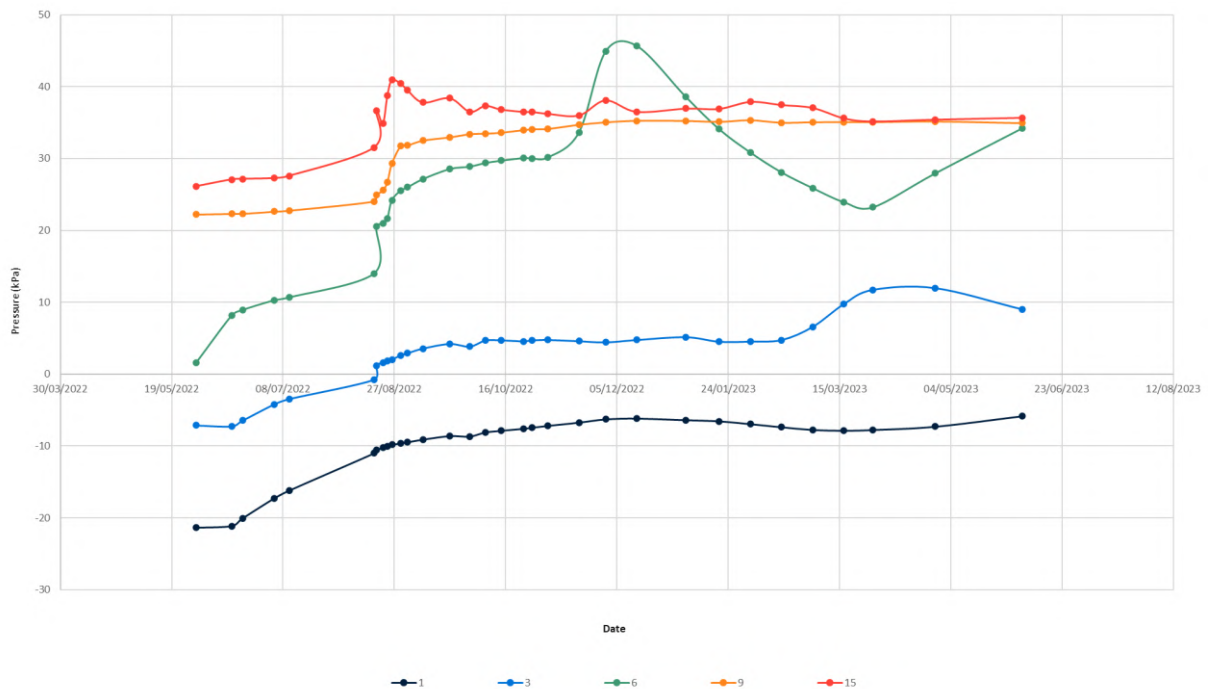


Figure 3-B: Extract of vibrating wire piezometer monitoring results (BH102)

- 3.4.4 In the above results the response to embankment construction can be seen by the rises in the individual piezometer lines just before 27th August 2023. This is most evident in the deeper piezometers represented by the green, orange, and red lines. It is noted that in this borehole there is no decay following construction.
- 3.4.5 The piezometer at 6m depth (green line) showed a second rise, peaking on 5th December 2022 and subsequently decaying over a period of 3 months. It is suspected that this is evidence of localised collapse settlement below this depth leading to a sudden rise in pressure. It is noted that such sudden movement has not been recorded in extensometer BH101 circa 2.3m away. The collapse has then migrated upward which possibly explains the corresponding rise seen in the light blue line (3m depth) towards the end of the monitoring period.
- 3.4.6 The other two vibrating wire piezometers showed limited response to the embankment construction indicating that drainage is relatively good.

4 Conclusions and Recommendations

4.1 Settlement

- 4.1.1 The monitoring demonstrates that notable surface settlement (80mm) occurs following application of load (circa 80kPa). A significant proportion of the settlement occurred within 2 weeks of construction of the embankment, with the remaining settlement substantially complete within six months. These findings should be used as a predictive tool to design the surcharge. It is recommended that the site is monitored during upfilling to validate the predictive model and provide quantitative evidence to inform removal of the surcharge.

4.2 Rate of filling

- 4.2.1 The monitoring results from the vibrating wire piezometers showed a limited response to application of load. On this basis no special measures are anticipated to be required to limit rate of filling. It is recommended that normal good practice be adopted when filling the site and that the site should be filled as uniformly as practicable.

4.3 Collapse settlement

- 4.3.1 The monitoring results recorded possible collapse settlement at a localised scale. Such settlement is common in uncompacted fills and should be accounted for in the next phase of the project.

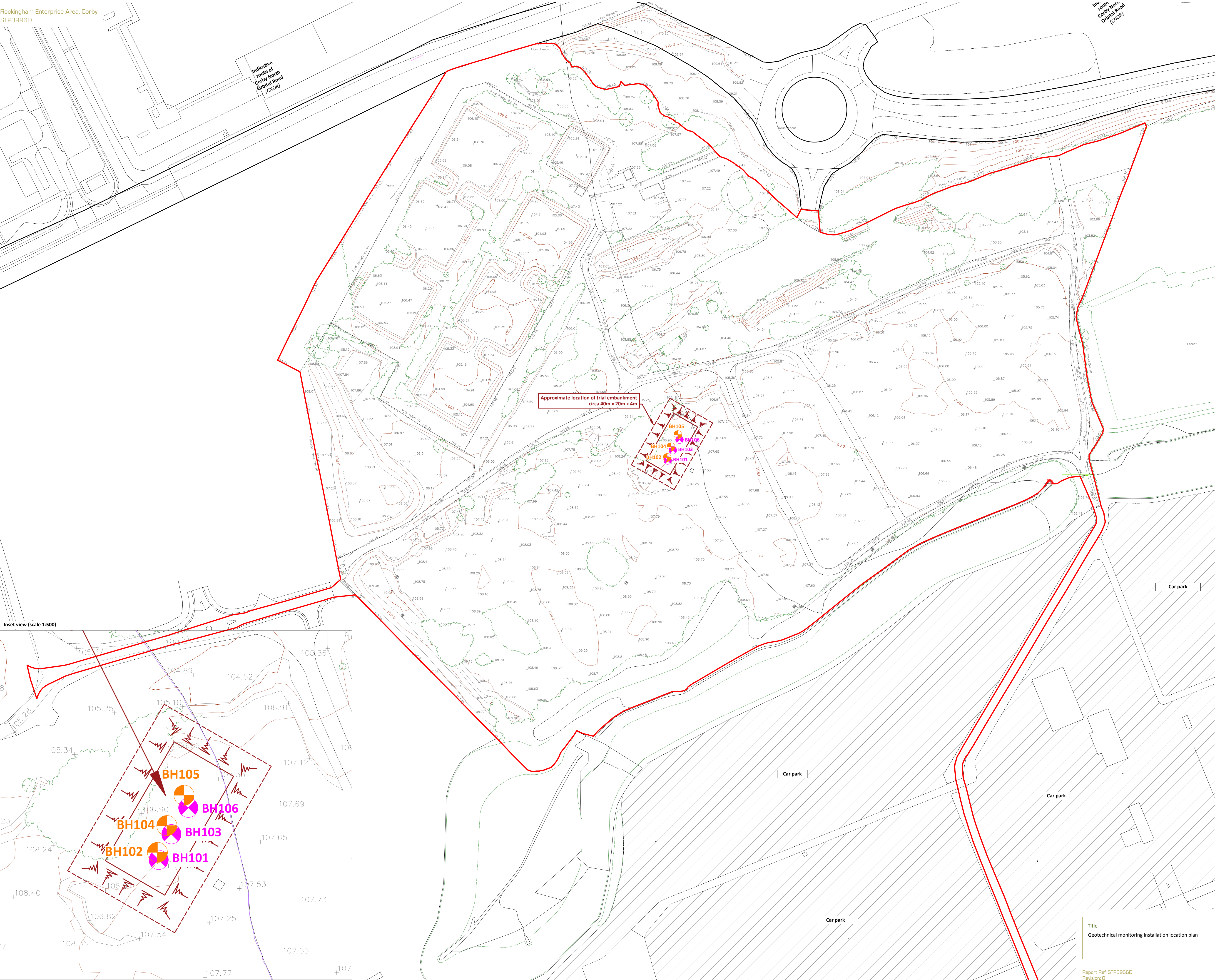
Appendix A Drawings



Key

BH Borehole with vibrating wire piezometer installation

BH Borehole with Extensometer installation



Inset view (scale 1:500)

Car park

Car park

Car park

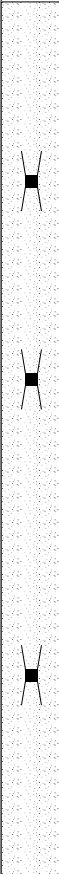
Car park

Title
Geotechnical monitoring installation location plan


Scale
1:1250 at A1

Drawing number
101

Appendix B Exploratory Hole Logs: Boreholes


INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	OPEN HOLE. No recovery.																		

CONTINUED ON NEXT SHEET		
Notes	<div>TitleBorehole record</div>	Date(s)11/05/2022
	<div>MethodRotary core</div>	<div>Logged byNI</div> <div>Sheet numberSheet 1 of 3</div>
Groundwater observations No groundwater encountered.	<div>Level (m OD)107.10</div>	<div>Compiled bySA</div> <div>Revision0</div>
	<div>Co-ordinates490155mE, 290808mN</div>	<div>Checked byAW</div> <div>BH101</div>

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
																			

CONTINUED ON NEXT SHEET

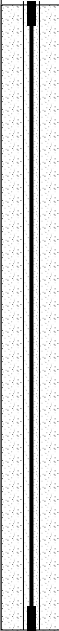
Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 2 of 3
Groundwater observations No groundwater encountered.	Level (m OD) 107.10	Compiled by SA	Revision 0
	Co-ordinates 490155mE, 290808mN	Checked by AW	BH101

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
																			
	BOREHOLE TERMINATED AT 20.00m	20.00	87.10																

Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 3 of 3
Groundwater observations No groundwater encountered.	Level (m OD) 107.10	Compiled by SA	Revision 0
	Co-ordinates 490155mE, 290808mN	Checked by AW	BH101

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	OPEN HOLE. No recovery.																		




Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 1 of 2
Groundwater observations No groundwater encountered.	Level (m OD) 107.15	Compiled by SA	Revision 0
	Co-ordinates 490155mE, 290810mN	Checked by AW	BH102

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
																			
	BOREHOLE TERMINATED AT 15.00m	15.00	92.15																


Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 2 of 2
Groundwater observations No groundwater encountered.	Level (m OD) 107.15	Compiled by SA	Revision 0
	Co-ordinates 490155mE, 290810mN	Checked by AW	BH102

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
<div>INSTALL</div>	OPEN HOLE. No recovery.																		

Notes	Title Borehole record		Date(s) 11/05/2022	
	Method Rotary core		Logged by NI	
Groundwater observations No groundwater encountered.	Level (m OD) 107.52		Compiled by SA	
	Co-ordinates 490159mE, 290815mN		Checked by AW	
		Revision 0		BH103

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
  																			

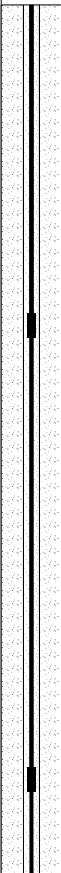


Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 2 of 3
Groundwater observations No groundwater encountered.	Level (m OD) 107.52	Compiled by SA	Revision 0
	Co-ordinates 490159mE, 290815mN	Checked by AW	BH103

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
																			
	BOREHOLE TERMINATED AT 21.50m	21.50	86.02																























Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 3 of 3
Groundwater observations No groundwater encountered.	Level (m OD) 107.52	Compiled by SA	Revision 0
	Co-ordinates 490159mE, 290815mN	Checked by AW	BH103

[illegible]

Notes	Chiselling details		Drilling details		Title		Date(s)
	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		12/05/2022
			200 150	9.00 15.00	Method Cable tool percussion	Logged by NI	Sheet number Sheet 1 of 3
Groundwater observations No groundwater encountered.	Water added details		Casing details		Level (m OD)	Compiled by	Revision
	Depth (m)	Water Added (l)	Diameter	Base depth (m)	107.61	SA	0
			220 170	1.60 10.00	Co-ordinates 490158mE, 290818mN	Checked by AW	BH104

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
					S 7.50 - 7.95	(1)	1.60	DRY		UT=8	6.00	6.45	UT	
											6.45	6.50	D	
											7.00	7.10	D	
											7.10	7.20	ES	
											7.50	7.95	D	
											8.50	8.60	D	
											8.60	8.70	ES	
											9.00	9.45	UT	
					S 10.50 - 10.95	(4) 9	10.50	DRY		UT=12	9.45	9.50	D	
											10.00	10.10	D	
											10.10	10.20	ES	
											10.50	10.95	D	
											11.50	11.60	D	

Notes	Chiselling details		Drilling details		Title		Date(s)
	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		12/05/2022
			200 150	9.00 15.00	Method Cable tool percussion	Logged by NI	Sheet number Sheet 2 of 3
Groundwater observations No groundwater encountered.	Water added details		Casing details		Level (m OD)	Compiled by	Revision
	Depth (m)	Water Added (l)	Diameter	Base depth (m)	107.61	SA	0
			220 170	1.60 10.00	Co-ordinates 490158mE, 290818mN	Checked by AW	BH104

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grey MUDSTONE with rare sand/sandstone bands.	12.00	95.61			S 13.50 - 13.95	(4) 10	13.50	DRY		UT=60	11.60	11.70	ES
												12.00	12.45	UT
												12.45	12.50	D
												13.00	13.10	D
												13.10	13.20	ES
												13.50	13.95	D
												14.10	15.20	D
												14.50	14.60	D
												14.60	14.70	ES
												15.00	15.30	B
	BOREHOLE TERMINATED AT 15.38m	15.38	92.23			S 15.00 - 15.38	(19) 50/225mm	15.00	DRY			15.00	15.37	D
												15.20	15.30	ES
														
														
														
														
														
														
														
														

Notes	Chiselling details		Drilling details		Title		Date(s)
	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		12/05/2022
			200 150	9.00 15.00	Method	Logged by	Sheet number
Groundwater observations No groundwater encountered.	Water added details		Casing details		Level (m OD)		Revision
	Depth (m)	Water Added (l)	Diameter	Base depth (m)	107.61		0
			220 170	1.60 10.00	Co-ordinates	Checked by	BH104
					490158mE, 290818mN	AW	

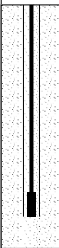


INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto soft to firm brownish grey sandy gravelly CLAY. Gravel is fine to coarse angular to subangular brick, concrete and slag. (MADE GROUND) ...between 0m and 3m depth, frequent glass, metal, paper and tile.													
						S 1.00 - 1.30	(16) 50/145mm	1.00	DRY			1.00	1.30	B
						S 2.00 - 2.28	(22) 50/130mm	2.00	DRY			1.70 1.80 2.00	1.90 1.90 2.50	D ES B
						S 3.00 - 3.32	(25) 50/165mm	3.00	DRY			2.70 2.80 3.00	2.80 2.90 3.50	D ES B
						S 4.00 - 4.24	(25) 50/90mm	4.00	DRY			3.70 3.80 4.00	3.80 3.90 4.50	D ES B
						S 5.00 - 5.45	(1)	5.00	DRY			4.50 4.70 4.80 5.00	5.00 4.80 4.90 5.45	B D ES D
												5.50 5.70	6.00 5.80	B D

Notes	Chiselling details		Drilling details		Title		Date(s)
	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		10/05/2022 - 12/05/2022
	3.00 - 4.00	02:00	200 150	11.45 13.00	Method Cable tool percussion	Logged by NI	Sheet number Sheet 1 of 3
Groundwater observations Groundwater encountered at 9m depth. Groundwater at 9m at start of shift 12.05.2022.	Water added details		Casing details		Level (m OD)	Compiled by	Revision
	Depth (m)	Water Added (l)	Diameter	Base depth (m)	107.23	SA	0
			220 170	4.00 9.00	Co-ordinates 490163mE, 290827mN	Checked by AW	BH105

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
						S 6.00 - 6.45	(2) 5	6.00	DRY			5.80 6.00	5.90 6.45	ES D
						S 7.00 - 7.45	(3) 10	7.00	DRY			6.50	7.00	B
												6.70	6.80	D
												6.80	6.90	ES
												7.00	7.45	D
												7.50	8.00	B
						S 8.00 - 8.45	(1)	8.00	DRY			7.70	7.80	D
												7.80	7.90	ES
												8.00	8.45	D
												8.50	9.00	B
												8.70	8.80	D
						S 9.00 - 9.45	(3) 11	9.00	DRY			8.80	8.90	ES
												9.00	9.45	D
	9.50	10.00	B											
9.70	9.50	D												
9.80	9.90	ES												
S 10.00 - 10.45	(6) 21	9.00	DRY	10.00	10.45	D								
				10.50	11.00	B								
				10.70	10.80	D								
				10.80	10.90	ES								
				11.00	11.45	D								
S 11.00 - 11.45	(7) 19	9.00	DRY	11.50	12.00	B								
Firm to stiff slightly sandy gravelly CLAY. Gravel is fine to medium angular subangular brick and slag. (MADE GROUND)	9.50	97.73												

CONTINUED ON NEXT SHEET

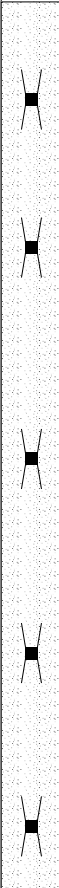
Notes	Chiselling details		Drilling details		Title		Date(s)
	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		10/05/2022 - 12/05/2022
			200 150	11.45 13.00	Method	Logged by	Sheet number
Groundwater observations Groundwater encountered at 9m depth. Groundwater at 9m at start of shift 12.05.2022.					Cable tool percussion	NI	Sheet 2 of 3
	Water added details		Casing details		Level (m OD)	Compiled by	Revision
	Depth (m)	Water Added (l)	Diameter	Base depth (m)	107.23	SA	0
			220 170	4.00 9.00	Co-ordinates	Checked by	BH105
					490163mE, 290827mN	AW	

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grey MUDSTONE with rare sand/sandstone bands.	12.00	95.23			S 12.00 - 12.45	(12) 43	9.00	DRY			11.70 11.80 12.00	11.80 11.90 12.45	D ES D
		13.21	94.02			S 13.00 - 13.26	(25) 50/105mm	9.00	DRY			12.50 12.70 12.80 13.00	13.00 12.80 12.90 13.21	B D ES D
	BOREHOLE TERMINATED AT 13.21m													

Notes	Chiselling details		Drilling details		Title		Date(s)
	Depth (m)	Duration (hh:mm)	Diameter	Base depth (m)	Borehole record		10/05/2022 - 12/05/2022
Groundwater observations Groundwater encountered at 9m depth. Groundwater at 9m at start of shift 12.05.2022.			200	11.45	Method Cable tool percussion	Logged by NI	Sheet number Sheet 3 of 3
			150	13.00			
	Water added details		Casing details		Level (m OD) 107.23	Compiled by SA	Revision 0
	Depth (m)	Water Added (l)	Diameter	Base depth (m)			
			220	4.00	Co-ordinates 490163mE, 290827mN	Checked by AW	BH105
			170	9.00			

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
<div>INSTALL</div> <div><div></div><div></div></div>	OPEN HOLE. No recovery.																		

Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 1 of 3
Groundwater observations No groundwater encountered.	Level (m OD) 107.44	Compiled by SA	Revision 0
	Co-ordinates 490164mE, 290823mN	Checked by AW	BH106

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
																			

CONTINUED ON NEXT SHEET

Notes	Title Borehole record		Date(s) 11/05/2022
	Method Rotary core	Logged by NI	Sheet number Sheet 2 of 3
Groundwater observations No groundwater encountered.	Level (m OD) 107.44	Compiled by SA	Revision 0
	Co-ordinates 490164mE, 290823mN	Checked by AW	BH106

INSTALL	STRATA				WATER STRIKES	CORING					SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		DEPTH (m)	TCR (%)	SCR (%)	RQD (%)	FI	TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	BOREHOLE TERMINATED AT 20.00m	20.00	87.44																

Notes	Title Borehole record		Date(s) 11/05/2022	
	Method Rotary core		Logged by NI	
Groundwater observations No groundwater encountered.	Level (m OD) 107.44		Compiled by SA	
	Co-ordinates 490164mE, 290823mN		Checked by AW	
		Revision 0		BH106

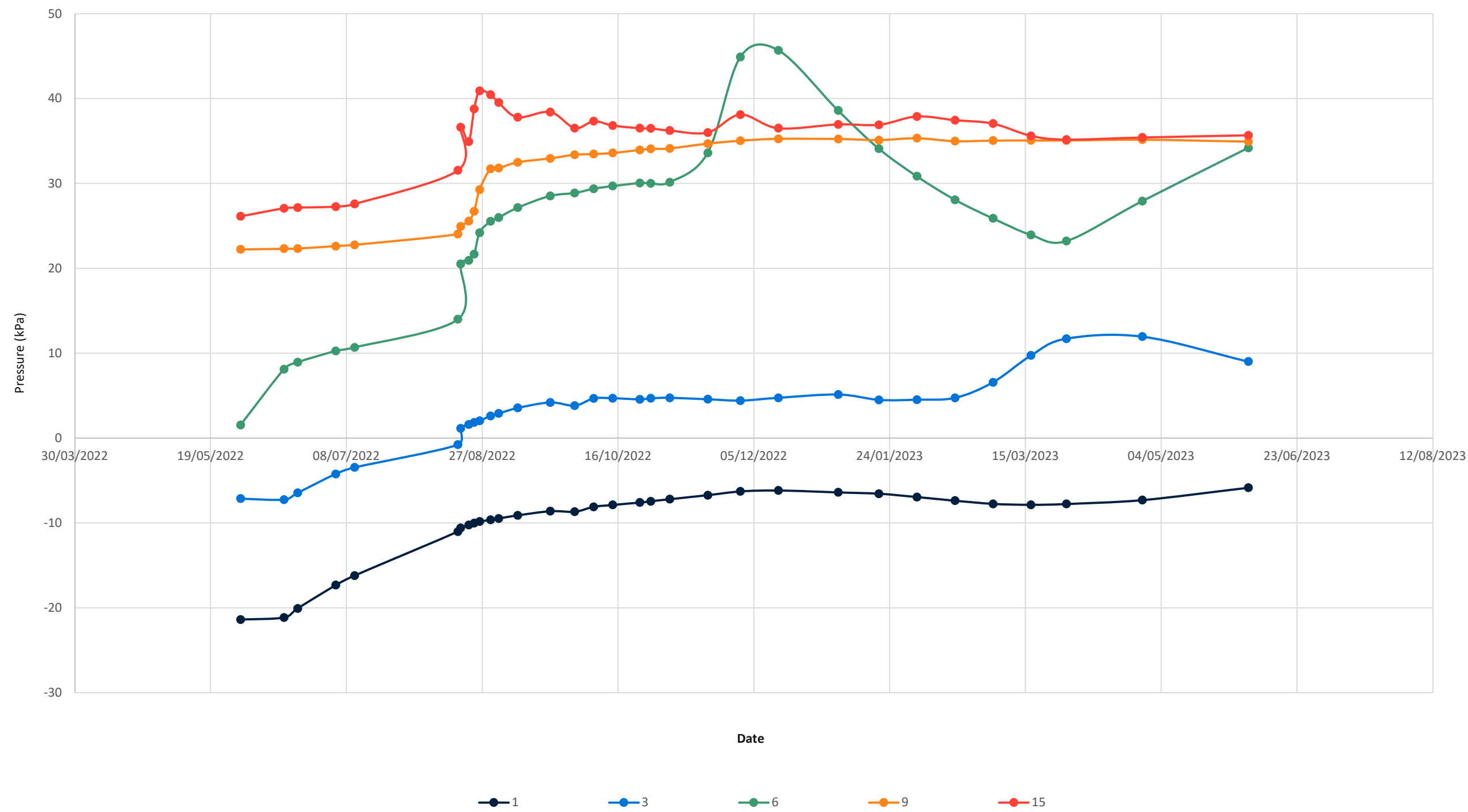
Appendix C In Situ Test Results

Table summarising Standard Penetration Test (SPT) results

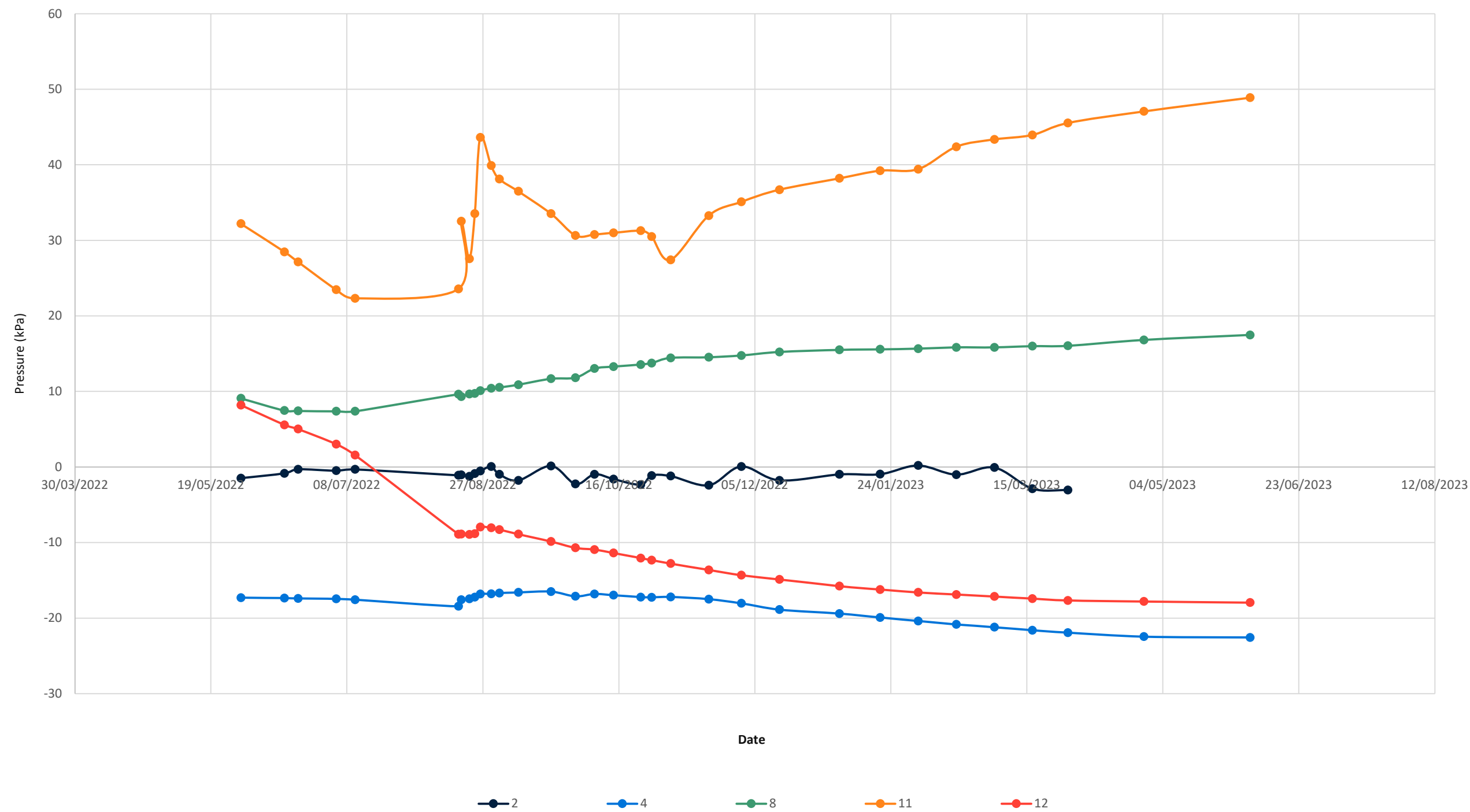
Location	Start Depth (m)	Penetration (mm)					
		Seating 1-2	Main 1-4	Total Seating	Total Main	Total Seating	Total Main
BH104	4.50	1/0	1/0/0/0	1	1	150	300
BH104	7.50	1/0	0/0/0/0	1	0	150	300
BH104	10.50	2/2	2/2/2/3	4	9	150	300
BH104	13.50	2/2	2/2/3/3	4	10	150	300
BH104	15.00	9/10	12/16/22	19	50	150	225
BH105	1.00	7/9	22/28	16	50	150	145
BH105	2.00	8/14	26/24	22	50	150	130
BH105	3.00	12/13	20/22/8	25	50	150	165
BH105	4.00	18/7	24/26	25	50	150	90
BH105	5.00	1/0	0/0/0/0	1	0	150	300
BH105	6.00	1/1	1/1/2/1	2	5	150	300
BH105	7.00	1/2	2/2/3/3	3	10	150	300
BH105	8.00	1/0	0/0/0/0	1	0	150	300
BH105	9.00	1/2	2/3/3/3	3	11	150	300
BH105	10.00	3/3	3/5/6/7	6	21	150	300
BH105	11.00	3/4	4/5/5/5	7	19	150	300
BH105	12.00	5/7	9/10/12/12	12	43	150	300
BH105	13.00	15/10	32/18	25	50	150	105

Appendix D Vibrating Wire Piezometer Monitoring

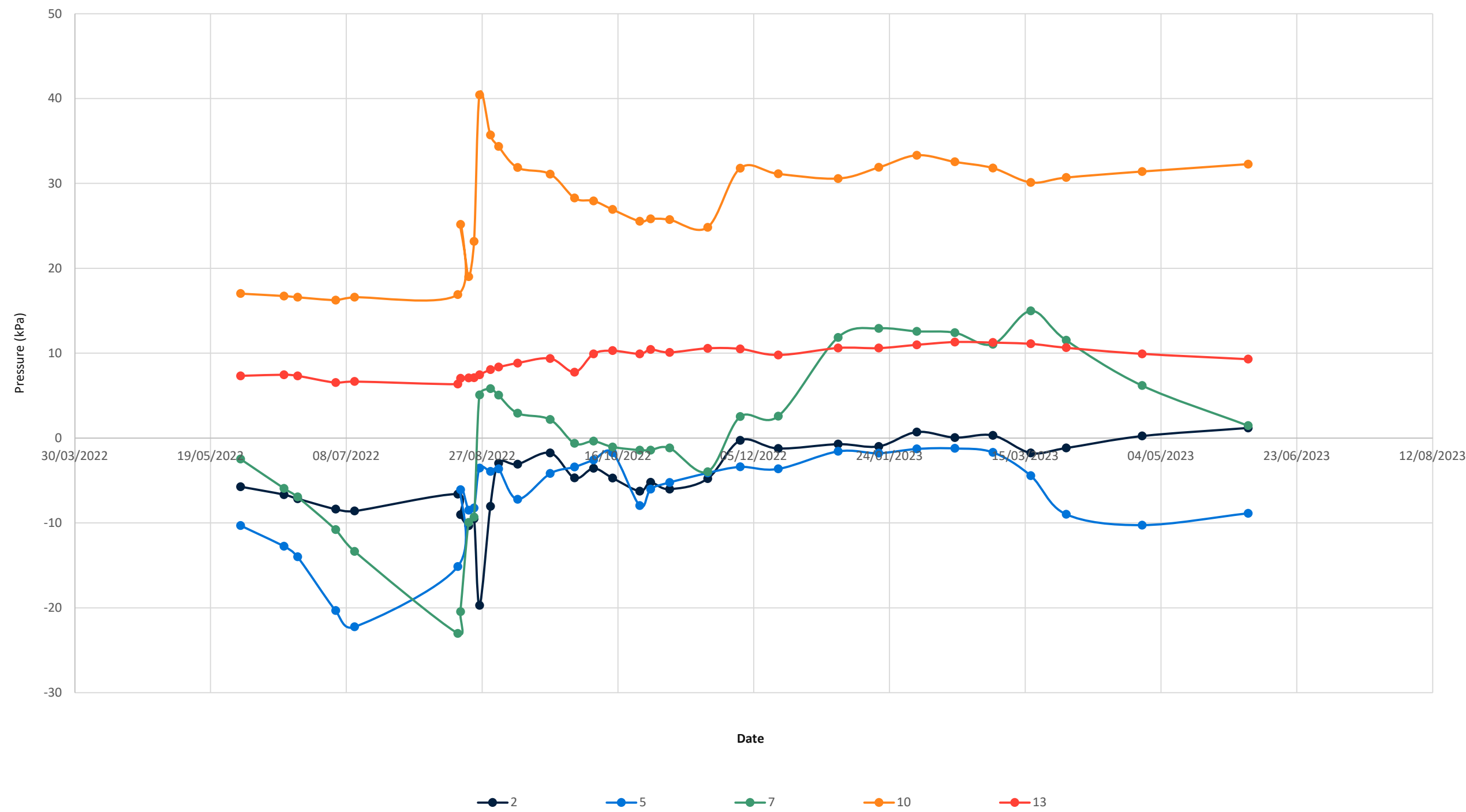
Piezometers (short term) - BH102



Piezometers (short term) - BH104

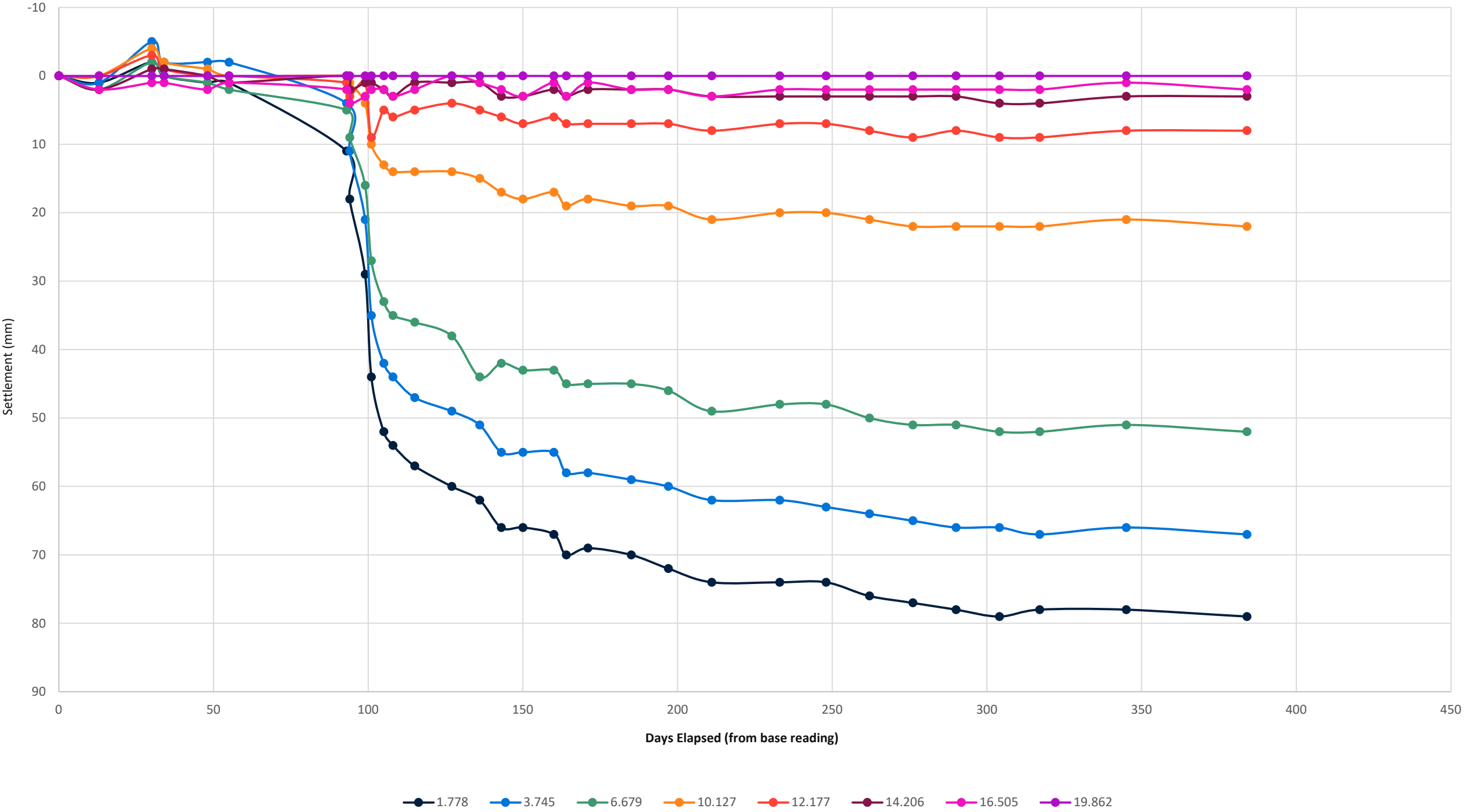


Piezometers (short term) - BH105

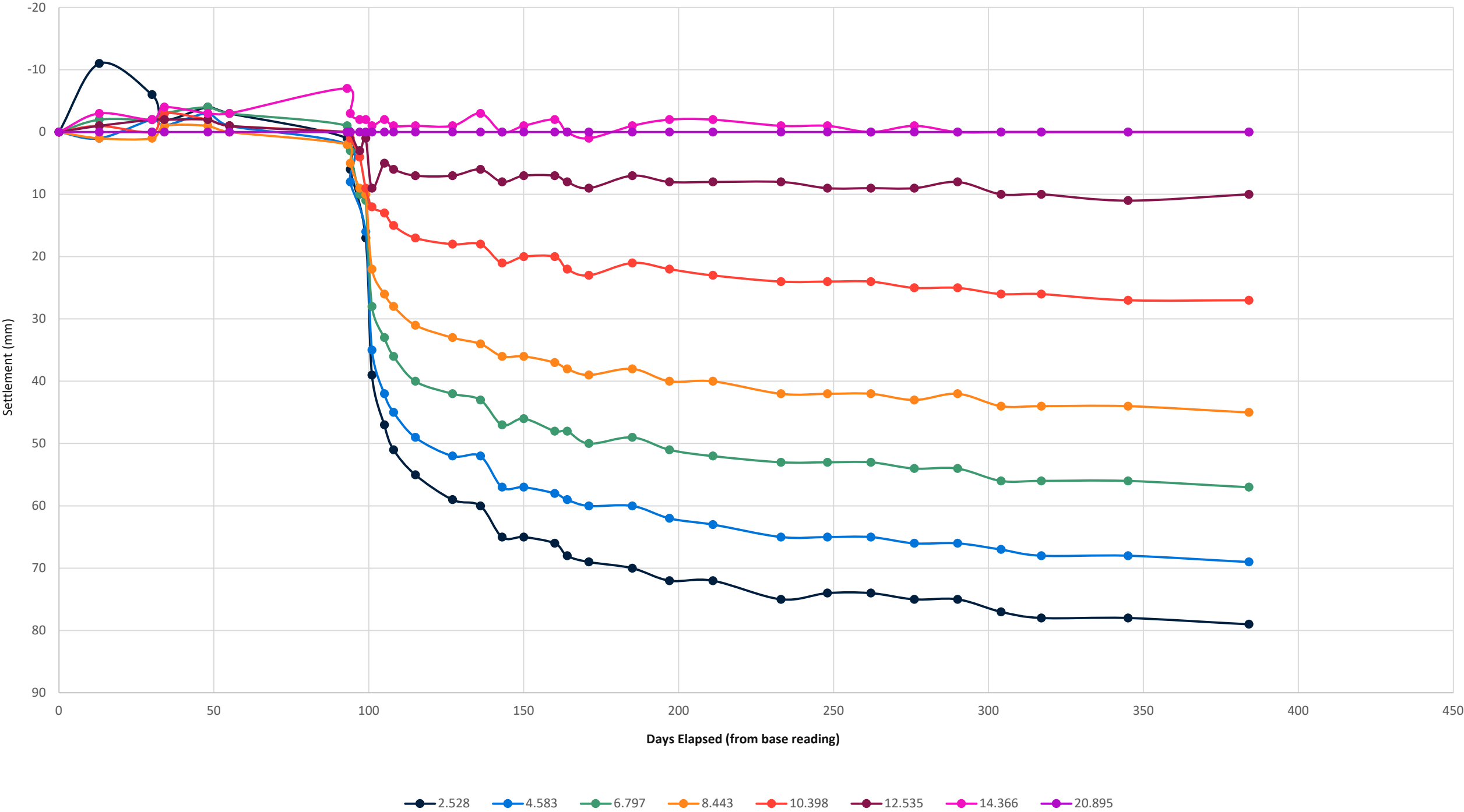


Appendix E Extensometer Monitoring

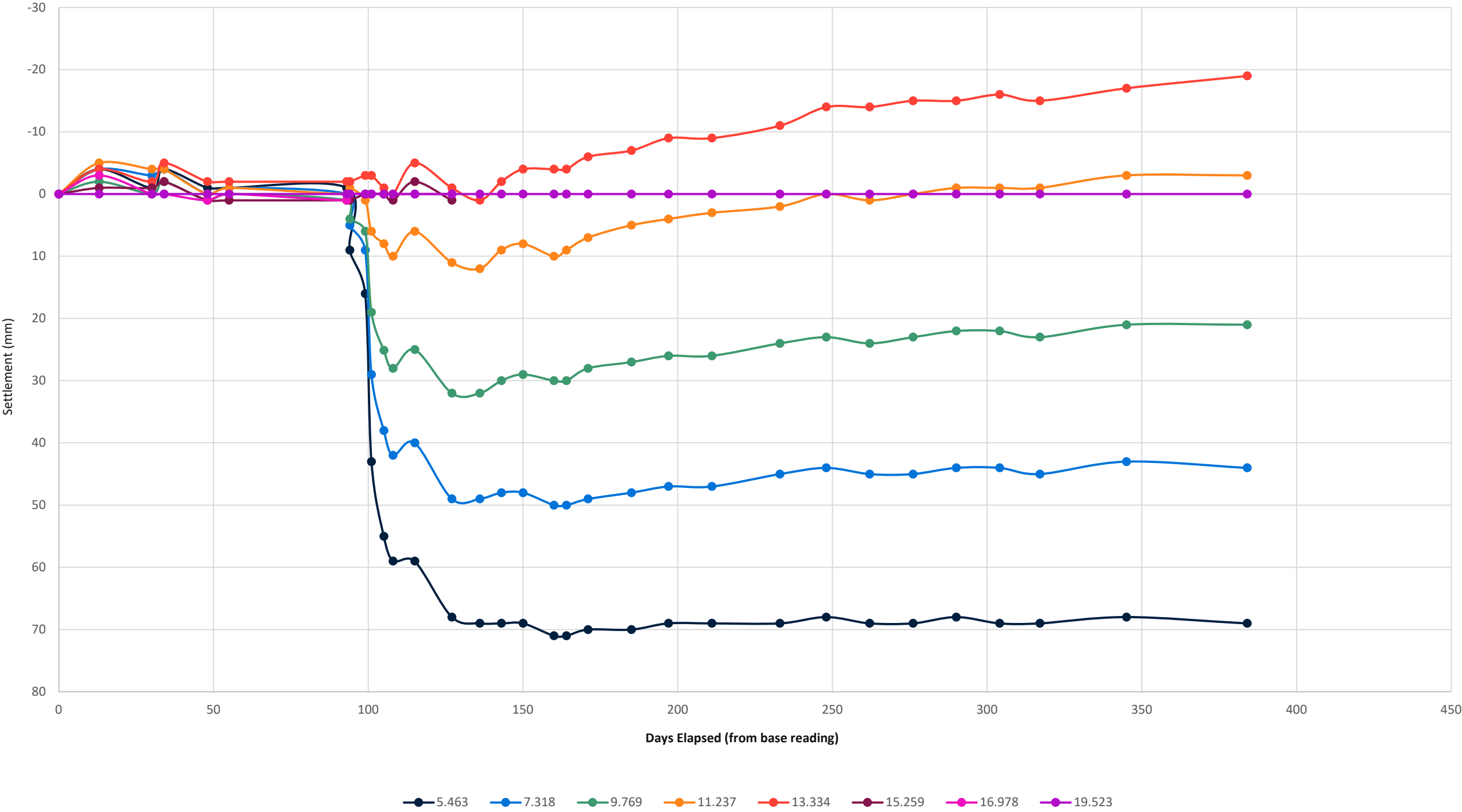
Extensometers - BH101



Extensometers - BH103



Extensometers - BH106



Appendix F BH06 Groundwater Chemical Results



Alexa Band
Soiltechnics Ltd
White Lodge
Cedar Barn
Walgrave
NN6 9PY

DETS Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 20-08629

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D-D5

Order No: POR008389

Sample Receipt Date: 03/08/2020

Sample Scheduled Date: 03/08/2020

Report Issue Number: 1

Reporting Date: 12/08/2020

Authorised by:

A handwritten signature in black ink, appearing to read "Kevin Old".

Kevin Old
General Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. 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 except in full, without the prior written approval of the laboratory.



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Water Analysis Certificate						
DETS Report No: 20-08629	Date Sampled	30/07/20	30/07/20	30/07/20	30/07/20	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.1009	BH0612.9408	BH0814.4107	BH0910.4410	SP020.011
Project / Job Ref: STP3966D-D5	Additional Refs	BH04	BH06	BH08	BH09	SP02
Order No: POR008389	Depth (m)	10.10	12.94	14.41	10.44	0.00
Reporting Date: 12/08/2020	DETS Sample No	490652	490653	490654	490655	490656

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	7.6	7.4	6.9	7.3	8.3
Total Cyanide	ug/l	< 5	NONE	11	30	8	188	14
Complex Cyanide	ug/l	< 5	NONE	11	30	8	188	14
Free Cyanide	ug/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	2560	1210	2010	1640	60
Sulphide	mg/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	NONE	4990	3340	190000	70100	324
Ammonia as NH ₄	ug/l	< 50	NONE	4990	3340	190000	70100	324
Chloride	mg/l	< 1	ISO17025	56	332	394	98	55
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	< 0.5	< 0.5	4.9
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phosphate as PO ₄	mg/l	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	10.7	10	8.2	16.4	13.3
Chemical Oxygen Demand	mg/l	< 5	NONE	20	18	94	33	6
Biological Oxygen Demand	mg/l	< 5	NONE	32	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	< 5	NONE	3150	6670	25700	3550	25
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Beryllium (dissolved)	ug/l	< 3	ISO17025	< 3	< 3	< 3	< 3	< 3
Boron (dissolved)	ug/l	< 5	ISO17025	251	952	258	1180	68
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	17	11	11	12	11
Lead (dissolved)	ug/l	< 5	ISO17025	8	< 5	5	5	< 5
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	10	13	14	9	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vanadium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	63	75	65	49	60
Total Phenols (monohydric)	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)
Insufficient sample ^{1/5}
Unsuitable Sample ^{u/s}



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 20-08629	Date Sampled	30/07/20	30/07/20	30/07/20	30/07/20	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.1009	BH0612.9408	BH0814.4107	BH0910.4410	SP020.011
Project / Job Ref: STP3966D-D5	Additional Refs	BH04	BH06	BH08	BH09	SP02
Order No: POR008389	Depth (m)	10.10	12.94	14.41	10.44	0.00
Reporting Date: 12/08/2020	DETS Sample No	490652	490653	490654	490655	490656

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	< 0.01	0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	< 0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.01	NONE	< 0.01	0.02	< 0.01	< 0.01	< 0.01



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 20-08629	Date Sampled	30/07/20	30/07/20	30/07/20	30/07/20	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.1009	BH0612.9408	BH0814.4107	BH0910.4410	SP020.011
Project / Job Ref: STP3966D-D5	Additional Refs	BH04	BH06	BH08	BH09	SP02
Order No: POR008389	Depth (m)	10.10	12.94	14.41	10.44	0.00
Reporting Date: 12/08/2020	DETS Sample No	490652	490653	490654	490655	490656

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	11	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 20-08629	Date Sampled	30/07/20	30/07/20	30/07/20	30/07/20	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.1009	BH0612.9408	BH0814.4107	BH0910.4410	SP020.011
Project / Job Ref: STP3966D-D5	Additional Refs	BH04	BH06	BH08	BH09	SP02
Order No: POR008389	Depth (m)	10.10	12.94	14.41	10.44	0.00
Reporting Date: 12/08/2020	DETS Sample No	490652	490653	490654	490655	490656

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 20-08629	Date Sampled	30/07/20	30/07/20	30/07/20	30/07/20	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.1009	BH0612.9408	BH0814.4107	BH0910.4410	SP020.011
Project / Job Ref: STP3966D-D5	Additional Refs	BH04	BH06	BH08	BH09	SP02
Order No: POR008389	Depth (m)	10.10	12.94	14.41	10.44	0.00
Reporting Date: 12/08/2020	DETS Sample No	490652	490653	490654	490655	490656

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	11	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 20-08629	Date Sampled	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.1009
Project / Job Ref: STP3966D-D5	Additional Refs	BH04
Order No: POR008389	Depth (m)	10.10
Reporting Date: 12/08/2020	DETS Sample No	490652

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 20-08629	Date Sampled	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.9408
Project / Job Ref: STP3966D-D5	Additional Refs	BH06
Order No: POR008389	Depth (m)	12.94
Reporting Date: 12/08/2020	DETS Sample No	490653

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 20-08629	Date Sampled	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0814.4107
Project / Job Ref: STP3966D-D5	Additional Refs	BH08
Order No: POR008389	Depth (m)	14.41
Reporting Date: 12/08/2020	DETS Sample No	490654

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 20-08629	Date Sampled	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0910.4410
Project / Job Ref: STP3966D-D5	Additional Refs	BH09
Order No: POR008389	Depth (m)	10.44
Reporting Date: 12/08/2020	DETS Sample No	490655

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 20-08629	Date Sampled	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	SP020.011
Project / Job Ref: STP3966D-D5	Additional Refs	SP02
Order No: POR008389	Depth (m)	0.00
Reporting Date: 12/08/2020	DETS Sample No	490656

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 20-08629	Date Sampled	30/07/20	30/07/20	30/07/20	30/07/20	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.1009	BH0612.9408	BH0814.4107	BH0910.4410	SP020.011
Project / Job Ref: STP3966D-D5	Additional Refs	BH04	BH06	BH08	BH09	SP02
Order No: POR008389	Depth (m)	10.10	12.94	14.41	10.44	0.00
Reporting Date: 12/08/2020	DETS Sample No	490652	490653	490654	490655	490656

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 20-08629	Date Sampled	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.1009
Project / Job Ref: STP3966D-D5	Additional Refs	BH04
Order No: POR008389	Depth (m)	10.10
Reporting Date: 12/08/2020	DETS Sample No	490652

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione	94	µg/l	< 0.1	0.3
2	Butyl citrate	91	µg/l	< 0.1	0.6
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 20-08629	Date Sampled	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.9408
Project / Job Ref: STP3966D-D5	Additional Refs	BH06
Order No: POR008389	Depth (m)	12.94
Reporting Date: 12/08/2020	DETS Sample No	490653

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 20-08629	Date Sampled	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0814.4107
Project / Job Ref: STP3966D-D5	Additional Refs	BH08
Order No: POR008389	Depth (m)	14.41
Reporting Date: 12/08/2020	DETS Sample No	490654

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 20-08629	Date Sampled	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0910.4410
Project / Job Ref: STP3966D-D5	Additional Refs	BH09
Order No: POR008389	Depth (m)	10.44
Reporting Date: 12/08/2020	DETS Sample No	490655

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 20-08629	Date Sampled	30/07/20
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	SP020.011
Project / Job Ref: STP3966D-D5	Additional Refs	SP02
Order No: POR008389	Depth (m)	0.00
Reporting Date: 12/08/2020	DETS Sample No	490656

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 20-08629	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Area, Corby	
Project / Job Ref: STP3966D-D5	
Order No: POR008389	
Reporting Date: 12/08/2020	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO ₄)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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Derwentside Environmental Testing Services Ltd
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DETS Report No: 22-00385

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR011711

Sample Receipt Date: 17/01/2022

Sample Scheduled Date: 17/01/2022

Report Issue Number: 1

Reporting Date: 24/01/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	6.8	7.0	7.1	6.9	7.4
Total Cyanide	ug/l	< 5	ISO17025	22	< 5	34	203	115
Complex Cyanide	ug/l	< 5	NONE	22	< 5	34	203	115
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	2940	1230	1050	1410	690
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	9060	480	6810	43800	585
Ammonia as NH ₄	ug/l	< 50	ISO17025	9060	480	6810	43800	585
Chloride	mg/l	< 1	ISO17025	66	11	135	90	240
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	0.8	< 0.5	< 0.5	< 0.5	109
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	3.8
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	1.1	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	46.1	30.9	27.8	27	21.2
Chemical Oxygen Demand	mg/l	< 5	NONE	33	17	28	42	44
Biological Oxygen Demand	mg/l	< 5	NONE	14	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	5	NONE	1450	348	962	579	98
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	6	10	46	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	799	843	3420	2330	1140
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	3.6	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	31	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	31	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	15	6	38	8	51
Lead (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	598	6	< 5
Manganese (dissolved)	ug/l	< 5	ISO17025	4740	3980	5130	5610	35
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	21	90	45	7	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	20	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	39	50	5010	44	129
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	93.7	54.9	65.4	65.2	26.8
Chromium (total)	ug/l	< 5	NONE	31	< 5	21	16	14
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	8.1	7.2	8.0	8.2	8.2
Total Cyanide	ug/l	< 5	ISO17025	76	< 5	< 5	21	12
Complex Cyanide	ug/l	< 5	NONE	76	< 5	< 5	21	12
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	703	2120	69	91	76
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	7540	15200	307	220	224
Ammonia as NH ₄	ug/l	< 50	ISO17025	7540	15200	307	220	224
Chloride	mg/l	< 1	ISO17025	26	13	66	74	62
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	6	3.1	18.6	16.2	16
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	5.3	< 0.5	< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	25.9	25.7	16.5	15.5	15.3
Chemical Oxygen Demand	mg/l	< 5	NONE	12	19	40	17	16
Biological Oxygen Demand	mg/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	5	NONE	76	598	201	9	13
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5	5	< 5	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	5330	2170	487	660	549
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	0.5	< 0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	23	40	6	9	22
Lead (dissolved)	ug/l	< 5	ISO17025	< 5	22	< 5	< 5	< 5
Manganese (dissolved)	ug/l	< 5	ISO17025	4700	4110	28	10	13
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	< 5	17	< 5	< 5	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	60	177	22	28	30
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	38.8	84.9	8.8	9.1	8.3
Chromium (total)	ug/l	< 5	NONE	11	14	33	10	10
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	< 0.01	0.02	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation						
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140	< 140



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation						
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140	< 140



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds (VOC)						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0410.871
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR011711		Depth (m)	10.87
Reporting Date: 24/01/2022		DETS Sample No	582156

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH059.182
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR011711		Depth (m)	9.18
Reporting Date: 24/01/2022		DETS Sample No	582157

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0613.285
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR011711		Depth (m)	13.28
Reporting Date: 24/01/2022		DETS Sample No	582158

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0910.583
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR011711		Depth (m)	10.58
Reporting Date: 24/01/2022		DETS Sample No	582159

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG1110.806
Project / Job Ref: STP3966D		Additional Refs	LG11
Order No: POR011711		Depth (m)	10.80
Reporting Date: 24/01/2022		DETS Sample No	582160

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG910.247
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR011711		Depth (m)	10.24
Reporting Date: 24/01/2022		DETS Sample No	582161

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LL612.264
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR011711		Depth (m)	12.26
Reporting Date: 24/01/2022		DETS Sample No	582162

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW10.008
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582163

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW20.009
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582164

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW30.0010
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582165

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.871	BH059.182	BH0613.285	BH0910.583	LG1110.806
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR011711	Depth (m)	10.87	9.18	13.28	10.58	10.80
Reporting Date: 24/01/2022	DETS Sample No	582156	582157	582158	582159	582160

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-00385	Date Sampled	12/01/22	12/01/22	12/01/22	12/01/22	12/01/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LG910.247	LL612.264	SW10.008	SW20.009	SW30.0010
Project / Job Ref: STP3966D	Additional Refs	LG9	LL6	SW1	SW2	SW3
Order No: POR011711	Depth (m)	10.24	12.26	0.00	0.00	0.00
Reporting Date: 24/01/2022	DETS Sample No	582161	582162	582163	582164	582165

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0410.871
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR011711		Depth (m)	10.87
Reporting Date: 24/01/2022		DETS Sample No	582156

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH059.182
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR011711		Depth (m)	9.18
Reporting Date: 24/01/2022		DETS Sample No	582157

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	Benzene, 2,4-dimethyl-1-(phenylmethyl)-	93	µg/l	< 0.1	0.4
2	Benzene, 1-methyl-2-[(3-methylphenyl)methyl]-	95	µg/l	< 0.1	0.2
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0613.285
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR011711		Depth (m)	13.28
Reporting Date: 24/01/2022		DETS Sample No	582158

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0910.583
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR011711		Depth (m)	10.58
Reporting Date: 24/01/2022		DETS Sample No	582159

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG1110.806
Project / Job Ref: STP3966D		Additional Refs	LG11
Order No: POR011711		Depth (m)	10.80
Reporting Date: 24/01/2022		DETS Sample No	582160

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione	97	µg/l	< 0.1	0.5
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG910.247
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR011711		Depth (m)	10.24
Reporting Date: 24/01/2022		DETS Sample No	582161

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LL612.264
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR011711		Depth (m)	12.26
Reporting Date: 24/01/2022		DETS Sample No	582162

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW10.008
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582163

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	2-Propanol, 1-chloro-, phosphate (3:1)	90	µg/l	< 0.1	0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW20.009
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582164

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	2-Propanol, 1-chloro-, phosphate (3:1)	91	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-00385		Date Sampled	12/01/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW30.0010
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR011711		Depth (m)	0.00
Reporting Date: 24/01/2022		DETS Sample No	582165

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester	90	µg/l	< 0.1	< 0.1
2	2-Propanol, 1-chloro-, phosphate (3:1)	91	µg/l	< 0.1	0.2
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-00385

Soiltechnics Ltd

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR011711

Reporting Date: 24/01/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



Lauren Wenham
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Derwentside Environmental Testing Services Ltd
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t: 01622 850410

DETS Report No: 22-01432

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR011918

Sample Receipt Date: 14/02/2022

Sample Scheduled Date: 14/02/2022

Report Issue Number: 1

Reporting Date: 21/02/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	7.1	7.2	7.3	7.1	8.7
Total Cyanide	ug/l	< 5	ISO17025	22	< 5	34	181	50
Complex Cyanide	ug/l	< 5	NONE	22	< 5	34	181	50
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	3470	1170	1080	1650	538
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	10300	509	10000	40500	1770
Ammonia as NH ₄	ug/l	< 50	ISO17025	10300	509	10000	40500	1770
Chloride	mg/l	< 1	ISO17025	75	10	141	88	19
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	1.7	< 0.5	9.7
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	1.1
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	1.2	< 0.5	6.1
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	48.9	27.4	22.7	20.9	25.1
Chemical Oxygen Demand	mg/l	< 5	NONE	35	16	32	41	15
Biological Oxygen Demand	mg/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	5	NONE	616	628	736	330	382
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	7	8	6	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	695	534	2430	1960	3780
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	9	< 5	5	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	< 5	8	6	< 5	< 5
Lead (dissolved)	ug/l	< 5	ISO17025	10	7	57	< 5	< 5
Manganese (dissolved)	ug/l	< 5	ISO17025	4010	2960	1490	5320	3840
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	24	49	15	8	5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	60	32	455	32	54
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	196	107	126	138	72.7
Chromium (total)	ug/l	< 5	NONE	< 5	< 5	6	< 5	9
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{1/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009	
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3	
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00	
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296	

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	7.2	8.2	8.3	8.3
Total Cyanide	ug/l	< 5	ISO17025	< 5	< 5	8	8
Complex Cyanide	ug/l	< 5	NONE	< 5	< 5	8	8
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	2070	102	105	107
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	17100	288	178	199
Ammonia as NH ₄	ug/l	< 50	ISO17025	17100	288	178	199
Chloride	mg/l	< 1	ISO17025	12	72	89	78
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	3.3	19.4	17.3	17.9
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	20	16.9	15.8	16
Chemical Oxygen Demand	mg/l	< 5	NONE	25	17	14	15
Biological Oxygen Demand	mg/l	< 5	NONE	11	13	< 5	70
Total Suspended Solids	mg/l	5	NONE	349	< 5	6	< 5
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	1860	788	781	726
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	13	< 5	6	18
Lead (dissolved)	ug/l	< 5	ISO17025	15	< 5	< 5	7
Manganese (dissolved)	ug/l	< 5	ISO17025	3980	59	9	24
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	0.15	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	16	< 5	< 5	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	111	62	100	120
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	167	21	20.6	20.5
Chromium (total)	ug/l	< 5	NONE	< 5	< 5	9	8
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)
Insufficient sample ^{1/S}
Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	0.01	< 0.01	0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	0.02	< 0.01	0.03
Pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	0.02	< 0.01	0.02
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009	
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3	
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00	
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296	

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	0.28	< 0.01	< 0.01	
Fluorene	ug/l	< 0.01	NONE	< 0.01	0.56	< 0.01	< 0.01	
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	0.89	< 0.01	0.01	
Anthracene	ug/l	< 0.01	NONE	< 0.01	0.28	< 0.01	< 0.01	
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	0.47	< 0.01	0.01	
Pyrene	ug/l	< 0.01	NONE	< 0.01	0.30	< 0.01	0.01	
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	0.04	< 0.01	< 0.01	
Chrysene	ug/l	< 0.01	NONE	< 0.01	0.03	< 0.01	< 0.01	
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	2.85	< 0.16	< 0.16	



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation						
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140	< 140



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009	
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3	
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00	
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296	

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	



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4480

Water Analysis Certificate - Volatile Organic Compounds (VOC)						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0410.744
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR011918		Depth (m)	10.74
Reporting Date: 21/02/2022		DETS Sample No	586288

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH059.112
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR011918		Depth (m)	9.11
Reporting Date: 21/02/2022		DETS Sample No	586289

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0612.986
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR011918		Depth (m)	12.98
Reporting Date: 21/02/2022		DETS Sample No	586290

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0910.575
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR011918		Depth (m)	10.57
Reporting Date: 21/02/2022		DETS Sample No	586291

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG910.481
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR011918		Depth (m)	10.48
Reporting Date: 21/02/2022		DETS Sample No	586292

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LL611.933
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR011918		Depth (m)	11.93
Reporting Date: 21/02/2022		DETS Sample No	586293

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW10.007
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586294

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW20.008
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586295

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW30.009
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586296

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	10/02/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0410.744	BH059.112	BH0612.986	BH0910.575	LG910.481
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG9
Order No: POR011918	Depth (m)	10.74	9.11	12.98	10.57	10.48
Reporting Date: 21/02/2022	DETS Sample No	586288	586289	586290	586291	586292

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-01432	Date Sampled	10/02/22	10/02/22	10/02/22	10/02/22	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	LL611.933	SW10.007	SW20.008	SW30.009	
Project / Job Ref: STP3966D	Additional Refs	LL6	SW1	SW2	SW3	
Order No: POR011918	Depth (m)	11.93	0.00	0.00	0.00	
Reporting Date: 21/02/2022	DETS Sample No	586293	586294	586295	586296	

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	0.1	< 0.1	< 0.1	
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0410.744
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR011918		Depth (m)	10.74
Reporting Date: 21/02/2022		DETS Sample No	586288

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH059.112
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR011918		Depth (m)	9.11
Reporting Date: 21/02/2022		DETS Sample No	586289

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0612.986
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR011918		Depth (m)	12.98
Reporting Date: 21/02/2022		DETS Sample No	586290

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0910.575
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR011918		Depth (m)	10.57
Reporting Date: 21/02/2022		DETS Sample No	586291

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LG910.481
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR011918		Depth (m)	10.48
Reporting Date: 21/02/2022		DETS Sample No	586292

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	LL611.933
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR011918		Depth (m)	11.93
Reporting Date: 21/02/2022		DETS Sample No	586293

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW10.007
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586294

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	Naphthalene, 2,3,6-trimethyl-	98	µg/l	< 0.1	0.8
2	Dibenzothiophene, 3-methyl-	94	µg/l	< 0.1	0.4
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW20.008
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586295

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-01432		Date Sampled	10/02/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	SW30.009
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR011918		Depth (m)	0.00
Reporting Date: 21/02/2022		DETS Sample No	586296

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-01432	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Area, Corby	
Project / Job Ref: STP3966D	
Order No: POR011918	
Reporting Date: 21/02/2022	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



Alexa Band
Soiltechnics Ltd
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Cedar Barn
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NN6 9PY

Derwentside Environmental Testing Services Ltd
Unit 1
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t: 01622 850410

DETS Report No: 22-02424

Site Reference: Rockingham Enterprise Are, Corby

Project / Job Ref: STP3966D

Order No: POR012105

Sample Receipt Date: 14/03/2022

Sample Scheduled Date: 14/03/2022

Report Issue Number: 1

Reporting Date: 21/03/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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4480

Water Analysis Certificate						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	7.1	7.1	7.2	7.0	7.3
Total Cyanide	ug/l	< 5	ISO17025	34	< 5	31	211	122
Complex Cyanide	ug/l	< 5	NONE	34	< 5	31	211	122
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	5570	1210	1060	1640	633
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	12000	529	10300	49700	269
Ammonia as NH ₄	ug/l	< 50	ISO17025	12000	529	10300	49700	269
Chloride	mg/l	< 1	ISO17025	102	11	139	87	242
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	1.1	< 0.5	267
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	4.5
Phosphate as PO ₄	mg/l	< 1	NONE	1.2	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	0.7	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	19	12.4	11.8	13.7	10.7
Chemical Oxygen Demand	mg/l	< 5	NONE	36	16	20	43	41
Biological Oxygen Demand	mg/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	5	NONE	41800	8040	246	6190	128
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	7	7	8	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	788	730	3130	2730	1590
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	10	< 5	7	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	7	< 5	18
Lead (dissolved)	ug/l	< 5	ISO17025	7	< 5	80	< 5	< 5
Manganese (dissolved)	ug/l	< 5	ISO17025	6300	3540	2650	5190	58
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	27	40	18	8	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	64	20	529	27	48
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	142	67.8	68.7	71.3	28
Chromium (total)	ug/l	< 5	NONE	< 5	6	6	< 5	8
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{1/S}

Unsuitable Sample ^{u/S}



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Water Analysis Certificate						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	6.8	7.5	7.2	8.0	8.2
Total Cyanide	ug/l	< 5	ISO17025	209	97	6	7	7
Complex Cyanide	ug/l	< 5	NONE	209	97	6	7	7
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	2180	1440	2090	102	102
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	639	22500	15500	263	210
Ammonia as NH ₄	ug/l	< 50	ISO17025	639	22500	15500	263	210
Chloride	mg/l	< 1	ISO17025	220	40	12	75	77
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	1.7	2.6	1.6	2.9	5
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	0.9	< 0.5
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	1.8	< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	12.7	11.2	8.3	9.1	9
Chemical Oxygen Demand	mg/l	< 5	NONE	36	25	28	24	22
Biological Oxygen Demand	mg/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	5	NONE	10200	1910	4990	8	6
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	2010	4810	2520	443	729
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	9	29	22	< 5	5
Lead (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	16	< 5	< 5
Manganese (dissolved)	ug/l	< 5	ISO17025	1240	10000	4380	305	38
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	7	10	20	< 5	< 5
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	56	64	105	44	107
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	207	60.9	97.6	11.7	10.5
Chromium (total)	ug/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)
Insufficient sample ^{1/S}
Unsuitable Sample ^{U/S}



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Water Analysis Certificate						
DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	8.1			
Total Cyanide	ug/l	< 5	ISO17025	9			
Complex Cyanide	ug/l	< 5	NONE	9			
Free Cyanide	ug/l	< 5	ISO17025	< 5			
Sulphate as SO ₄	mg/l	< 1	ISO17025	104			
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	231			
Ammonia as NH ₄	ug/l	< 50	ISO17025	231			
Chloride	mg/l	< 1	ISO17025	80			
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	5.1			
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5			
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0			
Fluoride	mg/l	< 0.5	ISO17025	< 0.5			
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	9.1			
Chemical Oxygen Demand	mg/l	< 5	NONE	24			
Biological Oxygen Demand	mg/l	< 5	NONE	< 5			
Total Suspended Solids	mg/l	5	NONE	8			
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10			
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5			
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5			
Boron (dissolved)	ug/l	< 5	ISO17025	371			
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4			
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5			
Chromium (hexavalent)	ug/l	< 20	NONE	< 20			
Chromium III	ug/l	< 20	NONE	< 20			
Copper (dissolved)	ug/l	< 5	ISO17025	8			
Lead (dissolved)	ug/l	< 5	ISO17025	< 5			
Manganese (dissolved)	ug/l	< 5	ISO17025	81			
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05			
Nickel (dissolved)	ug/l	< 5	ISO17025	< 5			
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5			
Zinc (dissolved)	ug/l	< 2	ISO17025	109			
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	11			
Chromium (total)	ug/l	< 5	NONE	< 5			
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10			

Subcontracted analysis ^(S)
 Insufficient sample ^{1/S}
 Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	0.02	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	0.02	0.04	0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	0.04	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	0.01	0.01	0.02	< 0.01	0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16



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Water Analysis Certificate - Speciated PAH

DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthene	ug/l	< 0.01	NONE	< 0.01			
Fluorene	ug/l	< 0.01	NONE	< 0.01			
Phenanthrene	ug/l	< 0.01	NONE	< 0.01			
Anthracene	ug/l	< 0.01	NONE	< 0.01			
Fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Pyrene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01			
Chrysene	ug/l	< 0.01	NONE	< 0.01			
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01			
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008			
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16			



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation						
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140	< 140



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation						
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	16	< 10	< 10	< 10
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	47	< 10	< 10	< 10
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10	< 10	14	< 10	< 10	< 10
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70	< 70	77	< 70	< 70	< 70
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10	< 10	18	< 10	< 10	< 10
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10	< 10	47	< 10	< 10	< 10
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35	ug/l	< 140	NONE	< 140	< 140	143	< 140	< 140	< 140



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Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10			
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10			
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10			
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70			
Total >C5 - C35	ug/l	< 140	NONE	< 140			



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation					
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
Benzene	ug/l	< 1	ISO17025	< 1			
Toluene	ug/l	< 5	ISO17025	< 5			
Ethylbenzene	ug/l	< 5	ISO17025	< 5			
p & m-xylene	ug/l	< 10	ISO17025	< 10			
o-xylene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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4480

Water Analysis Certificate - Volatile Organic Compounds (VOC)						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5			
Vinyl Chloride	ug/l	< 5	ISO17025	< 5			
Chloromethane	ug/l	< 5	ISO17025	< 5			
Chloroethane	ug/l	< 5	ISO17025	< 5			
Bromomethane	ug/l	< 5	ISO17025	< 5			
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5			
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Chloroform	ug/l	< 5	ISO17025	< 5			
Bromochloromethane	ug/l	< 10	ISO17025	< 10			
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5			
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10			
Benzene	ug/l	< 1	ISO17025	< 1			
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Trichloroethene	ug/l	< 5	ISO17025	< 5			
Bromodichloromethane	ug/l	< 5	ISO17025	< 5			
Dibromomethane	ug/l	< 5	ISO17025	< 5			
TAME	ug/l	< 5	ISO17025	< 5			
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Toluene	ug/l	< 5	ISO17025	< 5			
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10			
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Tetrachloroethene	ug/l	< 5	ISO17025	< 5			
Dibromochloromethane	ug/l	< 5	ISO17025	< 5			
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5			
Chlorobenzene	ug/l	< 5	ISO17025	< 5			
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5			
Ethyl Benzene	ug/l	< 5	ISO17025	< 5			
m,p-Xylene	ug/l	< 10	ISO17025	< 10			
o-Xylene	ug/l	< 5	ISO17025	< 5			
Styrene	ug/l	< 5	ISO17025	< 5			
Bromoform	ug/l	< 10	ISO17025	< 10			
Isopropylbenzene	ug/l	< 5	ISO17025	< 5			
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10			
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5			
n-Propylbenzene	ug/l	< 5	ISO17025	< 5			
Bromobenzene	ug/l	< 5	ISO17025	< 5			
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5			
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5			
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
n-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10			
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5			



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0410.339
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR012105		Depth (m)	10.33
Reporting Date: 21/03/2022		DETS Sample No	590218

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH058.937
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR012105		Depth (m)	8.93
Reporting Date: 21/03/2022		DETS Sample No	590219

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0613.248
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR012105		Depth (m)	13.24
Reporting Date: 21/03/2022		DETS Sample No	590220

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0910.195
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR012105		Depth (m)	10.19
Reporting Date: 21/03/2022		DETS Sample No	590221

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG1110.181
Project / Job Ref: STP3966D		Additional Refs	LG11
Order No: POR012105		Depth (m)	10.18
Reporting Date: 21/03/2022		DETS Sample No	590222

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG78.754
Project / Job Ref: STP3966D		Additional Refs	LG7
Order No: POR012105		Depth (m)	8.75
Reporting Date: 21/03/2022		DETS Sample No	590223

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG99.912
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR012105		Depth (m)	9.91
Reporting Date: 21/03/2022		DETS Sample No	590224

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LL611.746
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR012105		Depth (m)	11.74
Reporting Date: 21/03/2022		DETS Sample No	590225

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW10.0010
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590226

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW20.0011
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590227

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW30.003
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590228

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	BH0410.339	BH058.937	BH0613.248	BH0910.195	LG1110.181
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	LG11
Order No: POR012105	Depth (m)	10.33	8.93	13.24	10.19	10.18
Reporting Date: 21/03/2022	DETS Sample No	590218	590219	590220	590221	590222

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	0.3	< 0.1	0.1	0.3	0.2
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	0.2	< 0.1	< 0.1	< 0.1	0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 22-02424	Date Sampled	10/03/22	10/03/22	10/03/22	10/03/22	10/03/22
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	LG78.754	LG99.912	LL611.746	SW10.0010	SW20.0011
Project / Job Ref: STP3966D	Additional Refs	LG7	LG9	LL6	SW1	SW2
Order No: POR012105	Depth (m)	8.75	9.91	11.74	0.00	0.00
Reporting Date: 21/03/2022	DETS Sample No	590223	590224	590225	590226	590227

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	0.3	0.3	0.2	0.3	0.3
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-02424	Date Sampled	10/03/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Are, Corby	TP / BH No	SW30.003				
Project / Job Ref: STP3966D	Additional Refs	SW3				
Order No: POR012105	Depth (m)	0.00				
Reporting Date: 21/03/2022	DETS Sample No	590228				

Determinand	Unit	RL	Accreditation				
Phenol	ug/l	< 0.1	NONE	< 0.1			
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1			
0-Cresol	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1			
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1			
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1			
Isophorone	ug/l	< 0.1	NONE	< 0.1			
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1			
p-Cresol	ug/l	< 0.1	NONE	< 0.1			
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1			
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1			
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1			
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1			
Azobenzene	ug/l	< 0.1	NONE	< 0.1			
Dibutyl phthalate	ug/l	< 0.1	NONE	0.2			
Carbazole	ug/l	< 0.1	NONE	< 0.1			
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	0.1			
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1			



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0410.339
Project / Job Ref: STP3966D		Additional Refs	BH04
Order No: POR012105		Depth (m)	10.33
Reporting Date: 21/03/2022		DETS Sample No	590218

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH058.937
Project / Job Ref: STP3966D		Additional Refs	BH05
Order No: POR012105		Depth (m)	8.93
Reporting Date: 21/03/2022		DETS Sample No	590219

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0613.248
Project / Job Ref: STP3966D		Additional Refs	BH06
Order No: POR012105		Depth (m)	13.24
Reporting Date: 21/03/2022		DETS Sample No	590220

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	BH0910.195
Project / Job Ref: STP3966D		Additional Refs	BH09
Order No: POR012105		Depth (m)	10.19
Reporting Date: 21/03/2022		DETS Sample No	590221

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG1110.181
Project / Job Ref: STP3966D		Additional Refs	LG11
Order No: POR012105		Depth (m)	10.18
Reporting Date: 21/03/2022		DETS Sample No	590222

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG78.754
Project / Job Ref: STP3966D		Additional Refs	LG7
Order No: POR012105		Depth (m)	8.75
Reporting Date: 21/03/2022		DETS Sample No	590223

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LG99.912
Project / Job Ref: STP3966D		Additional Refs	LG9
Order No: POR012105		Depth (m)	9.91
Reporting Date: 21/03/2022		DETS Sample No	590224

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	LL611.746
Project / Job Ref: STP3966D		Additional Refs	LL6
Order No: POR012105		Depth (m)	11.74
Reporting Date: 21/03/2022		DETS Sample No	590225

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW10.0010
Project / Job Ref: STP3966D		Additional Refs	SW1
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590226

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	Cyclic octaatomic sulfur	96	µg/l	< 0.1	1.7
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW20.0011
Project / Job Ref: STP3966D		Additional Refs	SW2
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590227

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)			
DETS Report No: 22-02424		Date Sampled	10/03/22
Soiltechnics Ltd		Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Are, Corby		TP / BH No	SW30.003
Project / Job Ref: STP3966D		Additional Refs	SW3
Order No: POR012105		Depth (m)	0.00
Reporting Date: 21/03/2022		DETS Sample No	590228

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-02424	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Are, Corby	
Project / Job Ref: STP3966D	
Order No: POR012105	
Reporting Date: 21/03/2022	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



Lauren Wenham
Soiltechnics Ltd
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Cedar Barn
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Derwentside Environmental Testing Services Ltd
Unit 1
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t: 01622 850410

DETS Report No: 22-07642

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR013557

Sample Receipt Date: 12/09/2022

Sample Scheduled Date: 12/09/2022

Report Issue Number: 1

Reporting Date: 20/09/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-07642		Date Sampled	09/09/22			
Soiltechnics Ltd		Time Sampled	BH06			
Site Reference: Rockingham Enterprise Area, Corby		TP / BH No	BH0612.961			
Project / Job Ref: STP3966D		Additional Refs	BH06			
Order No: POR013557		Depth (m)	12.96			
Reporting Date: 20/09/2022		DETS Sample No	612307			

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	7.1			
Total Cyanide	ug/l	< 5	ISO17025	35			
Complex Cyanide	ug/l	< 5	NONE	35			
Free Cyanide	ug/l	< 5	ISO17025	< 5			
Sulphate as SO ₄	mg/l	< 1	ISO17025	1010			
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	13600			
Ammonia as NH ₄	ug/l	< 50	ISO17025	13600			
Chloride	mg/l	< 1	ISO17025	127			
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	3			
Nitrite as NO ₂	mg/l	< 0.5	NONE	1.8			
Phosphate as PO ₄	mg/l	< 1	NONE	3			
Fluoride	mg/l	< 0.5	ISO17025	0.6			
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	8.2			
Chemical Oxygen Demand	mg/l	< 10	ISO17025	30			
Biological Oxygen Demand	mg/l	< 5	NONE	< 5			
Total Suspended Solids	mg/l	5	NONE	3100			
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10			
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5			
Arsenic (dissolved)	ug/l	< 5	ISO17025	17			
Boron (dissolved)	ug/l	< 5	ISO17025	2960			
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	1			
Chromium (dissolved)	ug/l	< 5	ISO17025	22			
Chromium (hexavalent)	ug/l	< 20	NONE	< 20			
Chromium III	ug/l	< 20	NONE	22			
Copper (dissolved)	ug/l	< 5	ISO17025	19			
Lead (dissolved)	ug/l	< 5	ISO17025	305			
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05			
Nickel (dissolved)	ug/l	< 5	ISO17025	26			
Selenium (dissolved)	ug/l	< 5	ISO17025	8			
Zinc (dissolved)	ug/l	< 2	ISO17025	3840			
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	52.4			
Chromium (total)	ug/l	< 5	NONE	668			
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10			

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH

DETS Report No: 22-07642	Date Sampled	09/09/22				
Soiltechnics Ltd	Time Sampled	BH06				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013557	Depth (m)	12.96				
Reporting Date: 20/09/2022	DETS Sample No	612307				

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	0.03			
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthene	ug/l	< 0.01	NONE	< 0.01			
Fluorene	ug/l	< 0.01	NONE	< 0.01			
Phenanthrene	ug/l	< 0.01	NONE	< 0.01			
Anthracene	ug/l	< 0.01	NONE	< 0.01			
Fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Pyrene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01			
Chrysene	ug/l	< 0.01	NONE	< 0.01			
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01			
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008			
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16			



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Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 22-07642	Date Sampled	09/09/22				
Soiltechnics Ltd	Time Sampled	BH06				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013557	Depth (m)	12.96				
Reporting Date: 20/09/2022	DETS Sample No	612307				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10			
Aliphatic >C16 - C21	ug/l	< 10	NONE	< 10			
Aliphatic >C21 - C34	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C34)	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10			
Aromatic (C5 - C35)	ug/l	< 70	NONE	< 70			
Total >C5 - C35	ug/l	< 140	NONE	< 140			



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-07642	Date Sampled	09/09/22				
Soiltechnics Ltd	Time Sampled	BH06				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013557	Depth (m)	12.96				
Reporting Date: 20/09/2022	DETS Sample No	612307				

Determinand	Unit	RL	Accreditation				
Benzene	ug/l	< 1	ISO17025	< 1			
Toluene	ug/l	< 5	ISO17025	< 5			
Ethylbenzene	ug/l	< 5	ISO17025	< 5			
p & m-xylene	ug/l	< 10	ISO17025	< 10			
o-xylene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-07642	Date Sampled	09/09/22				
Soiltechnics Ltd	Time Sampled	BH06				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013557	Depth (m)	12.96				
Reporting Date: 20/09/2022	DETS Sample No	612307				

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5			
Vinyl Chloride	ug/l	< 5	ISO17025	< 5			
Chloromethane	ug/l	< 5	ISO17025	< 5			
Chloroethane	ug/l	< 5	ISO17025	< 5			
Bromomethane	ug/l	< 5	ISO17025	< 5			
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5			
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Chloroform	ug/l	< 5	ISO17025	< 5			
Bromochloromethane	ug/l	< 10	ISO17025	< 10			
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5			
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10			
Benzene	ug/l	< 1	ISO17025	< 1			
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Trichloroethene	ug/l	< 5	ISO17025	< 5			
Bromodichloromethane	ug/l	< 5	ISO17025	< 5			
Dibromomethane	ug/l	< 5	ISO17025	< 5			
TAME	ug/l	< 5	ISO17025	< 5			
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Toluene	ug/l	< 5	ISO17025	< 5			
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10			
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Tetrachloroethene	ug/l	< 5	ISO17025	< 5			
Dibromochloromethane	ug/l	< 5	ISO17025	< 5			
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5			
Chlorobenzene	ug/l	< 5	ISO17025	< 5			
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5			
Ethyl Benzene	ug/l	< 5	ISO17025	< 5			
m,p-Xylene	ug/l	< 10	ISO17025	< 10			
o-Xylene	ug/l	< 5	ISO17025	< 5			
Styrene	ug/l	< 5	ISO17025	< 5			
Bromoform	ug/l	< 10	ISO17025	< 10			
Isopropylbenzene	ug/l	< 5	ISO17025	< 5			
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10			
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5			
n-Propylbenzene	ug/l	< 5	ISO17025	< 5			
Bromobenzene	ug/l	< 5	ISO17025	< 5			
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5			
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5			
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
n-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10			
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5			



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 22-07642	Date Sampled	09/09/22
Soiltechnics Ltd	Time Sampled	BH06
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR013557	Depth (m)	12.96
Reporting Date: 20/09/2022	DETS Sample No	612307

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-07642	Date Sampled	09/09/22				
Soiltechnics Ltd	Time Sampled	BH06				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013557	Depth (m)	12.96				
Reporting Date: 20/09/2022	DETS Sample No	612307				

Determinand	Unit	RL	Accreditation				
Phenol	ug/l	< 0.1	NONE	< 0.1			
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1			
0-Cresol	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1			
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1			
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1			
Isophorone	ug/l	< 0.1	NONE	< 0.1			
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1			
p-Cresol	ug/l	< 0.1	NONE	< 0.1			
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1			
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1			
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1			
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1			
Azobenzene	ug/l	< 0.1	NONE	< 0.1			
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Carbazole	ug/l	< 0.1	NONE	< 0.1			
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1			
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1			



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 22-07642	Date Sampled	09/09/22
Soiltechnics Ltd	Time Sampled	BH06
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.961
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR013557	Depth (m)	12.96
Reporting Date: 20/09/2022	DETS Sample No	612307

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-07642	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Area, Corby	
Project / Job Ref: STP3966D	
Order No: POR013557	
Reporting Date: 20/09/2022	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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Derwentside Environmental Testing Services Ltd
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t: 01622 850410

DETS Report No: 22-08711

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR013825

Sample Receipt Date: 19/10/2022

Sample Scheduled Date: 19/10/2022

Report Issue Number: 1

Reporting Date: 25/10/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	6.8			
Total Cyanide	ug/l	< 5	ISO17025	43			
Complex Cyanide	ug/l	< 5	NONE	43			
Free Cyanide	ug/l	< 5	ISO17025	< 5			
Sulphate as SO ₄	mg/l	< 1	ISO17025	1030			
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	13700			
Ammonia as NH ₄	ug/l	< 50	ISO17025	13700			
Chloride	mg/l	< 1	ISO17025	134			
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	2.9			
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5			
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0			
Fluoride	mg/l	< 0.5	ISO17025	< 0.5			
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	19.1			
Chemical Oxygen Demand	mg/l	<10	ISO17025	23			
Biological Oxygen Demand	mg/l	< 5	NONE	6			
Total Suspended Solids	mg/l	5	NONE	224			
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10			
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5			
Arsenic (dissolved)	ug/l	< 5	ISO17025	12			
Boron (dissolved)	ug/l	< 5	ISO17025	1860			
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	0.6			
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5			
Chromium (hexavalent)	ug/l	< 20	NONE	< 20			
Chromium III	ug/l	< 20	NONE	< 20			
Copper (dissolved)	ug/l	< 5	ISO17025	16			
Lead (dissolved)	ug/l	< 5	ISO17025	120			
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05			
Nickel (dissolved)	ug/l	< 5	ISO17025	11			
Selenium (dissolved)	ug/l	< 5	ISO17025	7			
Zinc (dissolved)	ug/l	< 2	ISO17025	619			
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	47.3			
Chromium (total)	ug/l	< 5	NONE	131			
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10			

Subcontracted analysis ^(S)
Insufficient sample ^{I/S}
Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH

DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthene	ug/l	< 0.01	NONE	< 0.01			
Fluorene	ug/l	< 0.01	NONE	< 0.01			
Phenanthrene	ug/l	< 0.01	NONE	0.07			
Anthracene	ug/l	< 0.01	NONE	0.03			
Fluoranthene	ug/l	< 0.01	NONE	0.04			
Pyrene	ug/l	< 0.01	NONE	0.03			
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01			
Chrysene	ug/l	< 0.01	NONE	< 0.01			
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01			
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008			
Total EPA-16 PAHs	ug/l	< 0.16	NONE	0.17			



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C16 - C21 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C21 - C34 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	< 70			
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	< 140			



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1			
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10			
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10			



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5			
Vinyl Chloride	ug/l	< 5	ISO17025	< 5			
Chloromethane	ug/l	< 5	ISO17025	< 5			
Chloroethane	ug/l	< 5	ISO17025	< 5			
Bromomethane	ug/l	< 5	ISO17025	< 5			
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5			
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Chloroform	ug/l	< 5	ISO17025	< 5			
Bromochloromethane	ug/l	< 10	ISO17025	< 10			
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5			
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10			
Benzene	ug/l	< 1	ISO17025	< 1			
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Trichloroethene	ug/l	< 5	ISO17025	< 5			
Bromodichloromethane	ug/l	< 5	ISO17025	< 5			
Dibromomethane	ug/l	< 5	ISO17025	< 5			
TAME	ug/l	< 5	ISO17025	< 5			
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Toluene	ug/l	< 5	ISO17025	< 5			
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10			
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Tetrachloroethene	ug/l	< 5	ISO17025	< 5			
Dibromochloromethane	ug/l	< 5	ISO17025	< 5			
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5			
Chlorobenzene	ug/l	< 5	ISO17025	< 5			
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5			
Ethyl Benzene	ug/l	< 5	ISO17025	< 5			
m,p-Xylene	ug/l	< 10	ISO17025	< 10			
o-Xylene	ug/l	< 5	ISO17025	< 5			
Styrene	ug/l	< 5	ISO17025	< 5			
Bromoform	ug/l	< 10	ISO17025	< 10			
Isopropylbenzene	ug/l	< 5	ISO17025	< 5			
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10			
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5			
n-Propylbenzene	ug/l	< 5	ISO17025	< 5			
Bromobenzene	ug/l	< 5	ISO17025	< 5			
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5			
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5			
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
n-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10			
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5			



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 22-08711	Date Sampled	14/10/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR013825	Depth (m)	13.00
Reporting Date: 25/10/2022	DETS Sample No	617083

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-08711	Date Sampled	14/10/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR013825	Depth (m)	13.00				
Reporting Date: 25/10/2022	DETS Sample No	617083				

Determinand	Unit	RL	Accreditation				
Phenol	ug/l	< 0.1	NONE	< 0.1			
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1			
0-Cresol	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1			
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1			
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1			
Isophorone	ug/l	< 0.1	NONE	< 0.1			
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1			
p-Cresol	ug/l	< 0.1	NONE	< 0.1			
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1			
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1			
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1			
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1			
Azobenzene	ug/l	< 0.1	NONE	< 0.1			
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Carbazole	ug/l	< 0.1	NONE	< 0.1			
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1			
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1			



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 22-08711	Date Sampled	14/10/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.001
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR013825	Depth (m)	13.00
Reporting Date: 25/10/2022	DETS Sample No	617083

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-08711	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Area, Corby	
Project / Job Ref: STP3966D	
Order No: POR013825	
Reporting Date: 25/10/2022	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO ₄)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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4480

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Aromatic C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



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DETS Report No: 22-09764

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR014060

Sample Receipt Date: 23/11/2022

Sample Scheduled Date: 23/11/2022

Report Issue Number: 1

Reporting Date: 01/12/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	7.2			
Total Cyanide	ug/l	< 5	NONE	33			
Complex Cyanide	ug/l	< 5	NONE	33			
Free Cyanide	ug/l	< 5	NONE	< 5			
Sulphate as SO ₄	mg/l	< 1	ISO17025	578			
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	2170			
Ammonia as NH ₄	ug/l	< 50	ISO17025	2170			
Chloride	mg/l	< 1	ISO17025	40			
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	29.4			
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5			
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0			
Fluoride	mg/l	< 0.5	ISO17025	1.4			
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	53.3			
Chemical Oxygen Demand	mg/l	<10	ISO17025	27			
Biological Oxygen Demand	mg/l	< 5	NONE	< 5			
Total Suspended Solids	mg/l	5	NONE	1740			
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10			
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5			
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5			
Boron (dissolved)	ug/l	< 5	ISO17025	5280			
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4			
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5			
Chromium (hexavalent)	ug/l	< 20	NONE	< 20			
Chromium III	ug/l	< 20	NONE	< 20			
Copper (dissolved)	ug/l	< 5	ISO17025	6			
Lead (dissolved)	ug/l	< 5	ISO17025	6			
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05			
Nickel (dissolved)	ug/l	< 5	ISO17025	7			
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5			
Zinc (dissolved)	ug/l	< 2	ISO17025	77			
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	87			
Chromium (total)	ug/l	< 5	NONE	251			
Total Phenols (monohydric)	ug/l	< 10	NONE	23			

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH

DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01			
Acenaphthene	ug/l	< 0.01	NONE	0.03			
Fluorene	ug/l	< 0.01	NONE	0.02			
Phenanthrene	ug/l	< 0.01	NONE	0.03			
Anthracene	ug/l	< 0.01	NONE	< 0.01			
Fluoranthene	ug/l	< 0.01	NONE	0.02			
Pyrene	ug/l	< 0.01	NONE	0.01			
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01			
Chrysene	ug/l	< 0.01	NONE	< 0.01			
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01			
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01			
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01			
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01			
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008			
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16			



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Water Analysis Certificate - TPH CWG Banded

DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16 : EH_CU_1D_AL	ug/l	< 10	NONE	15			
Aliphatic >C16 - C21 : EH_CU_1D_AL	ug/l	< 10	NONE	12			
Aliphatic >C21 - C34 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	< 70			
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	< 140			



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Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1			
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10			
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5			
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10			



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5			
Vinyl Chloride	ug/l	< 5	ISO17025	< 5			
Chloromethane	ug/l	< 5	ISO17025	< 5			
Chloroethane	ug/l	< 5	ISO17025	< 5			
Bromomethane	ug/l	< 5	ISO17025	< 5			
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5			
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5			
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Chloroform	ug/l	< 5	ISO17025	< 5			
Bromochloromethane	ug/l	< 10	ISO17025	< 10			
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5			
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5			
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10			
Benzene	ug/l	< 1	ISO17025	< 1			
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Trichloroethene	ug/l	< 5	ISO17025	< 5			
Bromodichloromethane	ug/l	< 5	ISO17025	< 5			
Dibromomethane	ug/l	< 5	ISO17025	< 5			
TAME	ug/l	< 5	ISO17025	< 5			
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
Toluene	ug/l	< 5	ISO17025	< 5			
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5			
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10			
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5			
Tetrachloroethene	ug/l	< 5	ISO17025	< 5			
Dibromochloromethane	ug/l	< 5	ISO17025	< 5			
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5			
Chlorobenzene	ug/l	< 5	ISO17025	< 5			
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5			
Ethyl Benzene	ug/l	< 5	ISO17025	< 5			
m,p-Xylene	ug/l	< 10	ISO17025	< 10			
o-Xylene	ug/l	< 5	ISO17025	< 5			
Styrene	ug/l	< 5	ISO17025	< 5			
Bromoform	ug/l	< 10	ISO17025	< 10			
Isopropylbenzene	ug/l	< 5	ISO17025	< 5			
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10			
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5			
n-Propylbenzene	ug/l	< 5	ISO17025	< 5			
Bromobenzene	ug/l	< 5	ISO17025	< 5			
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5			
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5			
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5			
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5			
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
n-Butylbenzene	ug/l	< 5	ISO17025	< 5			
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5			
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10			
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5			



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 22-09764	Date Sampled	18/11/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR014060	Depth (m)	13.12
Reporting Date: 01/12/2022	DETS Sample No	621196

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-09764	Date Sampled	18/11/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014060	Depth (m)	13.12				
Reporting Date: 01/12/2022	DETS Sample No	621196				

Determinand	Unit	RL	Accreditation				
Phenol	ug/l	< 0.1	NONE	< 0.1			
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1			
0-Cresol	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1			
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1			
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1			
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1			
Isophorone	ug/l	< 0.1	NONE	< 0.1			
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1			
p-Cresol	ug/l	< 0.1	NONE	< 0.1			
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1			
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1			
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1			
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1			
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1			
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1			
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1			
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1			
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1			
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1			
Azobenzene	ug/l	< 0.1	NONE	< 0.1			
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Carbazole	ug/l	< 0.1	NONE	< 0.1			
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1			
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1			
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1			



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 22-09764	Date Sampled	18/11/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0613.121
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR014060	Depth (m)	13.12
Reporting Date: 01/12/2022	DETS Sample No	621196

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	Cyclic Octaatomic sulfur	95	µg/l	< 0.1	0.8
2	6-Tetradecanesulfonic acid, butyl ester	91	µg/l	< 0.1	2.6
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 22-09764

Soiltechnics Ltd

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR014060

Reporting Date: 01/12/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Aromatic C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



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DETS Report No: 22-10821

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR014312

Sample Receipt Date: 20/12/2022

Sample Scheduled Date: 20/12/2022

Report Issue Number: 1

Reporting Date: 05/01/2023

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate						
DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)				
pH	pH Units	N/a	ISO17025	7.0				
Total Cyanide	ug/l	< 5	NONE	22				
Complex Cyanide	ug/l	< 5	NONE	22				
Free Cyanide	ug/l	< 5	NONE	< 5				
Sulphate as SO ₄	mg/l	< 1	ISO17025	1020				
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	157				
Ammonia as NH ₄	ug/l	< 50	ISO17025	157				
Chloride	mg/l	< 1	ISO17025	90				
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	31.1				
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5				
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0				
Fluoride	mg/l	< 0.5	ISO17025	1.2				
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	52.9				
Chemical Oxygen Demand	mg/l	<10	ISO17025	32				
Biological Oxygen Demand	mg/l	< 5	NONE	< 5				
Total Suspended Solids	mg/l	5	NONE	268				
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10				
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5				
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5				
Boron (dissolved)	ug/l	< 5	ISO17025	8530				
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4				
Chromium (dissolved)	ug/l	< 5	ISO17025	9				
Chromium (hexavalent)	ug/l	< 20	NONE	< 20				
Chromium III	ug/l	< 20	NONE	< 20				
Copper (dissolved)	ug/l	< 5	ISO17025	< 5				
Lead (dissolved)	ug/l	< 5	ISO17025	< 5				
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05				
Nickel (dissolved)	ug/l	< 5	ISO17025	7				
Selenium (dissolved)	ug/l	< 5	ISO17025	48				
Zinc (dissolved)	ug/l	< 2	ISO17025	137				
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	182				
Chromium (total)	ug/l	< 5	NONE	131				
Total Phenols (monohydric)	ug/l	< 10	NONE	10				

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - Speciated PAH

DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)				
Naphthalene	ug/l	< 0.01	NONE	< 0.01				
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01				
Acenaphthene	ug/l	< 0.01	NONE	< 0.01				
Fluorene	ug/l	< 0.01	NONE	< 0.01				
Phenanthrene	ug/l	< 0.01	NONE	< 0.01				
Anthracene	ug/l	< 0.01	NONE	< 0.01				
Fluoranthene	ug/l	< 0.01	NONE	< 0.01				
Pyrene	ug/l	< 0.01	NONE	< 0.01				
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01				
Chrysene	ug/l	< 0.01	NONE	< 0.01				
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01				
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01				
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01				
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01				
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01				
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008				
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16				



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Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)			
Aliphatic >C5 - C6 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C16 - C21 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic >C21 - C34 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10			
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	< 70			
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	< 140			

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)				
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1				
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5				
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5				
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10				
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5				
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10				

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5				
Vinyl Chloride	ug/l	< 5	ISO17025	< 5				
Chloromethane	ug/l	< 5	ISO17025	< 5				
Chloroethane	ug/l	< 5	ISO17025	< 5				
Bromomethane	ug/l	< 5	ISO17025	< 5				
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5				
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5				
MTBE	ug/l	< 10	ISO17025	< 10				
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5				
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5				
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5				
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5				
Chloroform	ug/l	< 5	ISO17025	< 5				
Bromochloromethane	ug/l	< 10	ISO17025	< 10				
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5				
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5				
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5				
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10				
Benzene	ug/l	< 1	ISO17025	< 1				
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5				
Trichloroethene	ug/l	< 5	ISO17025	< 5				
Bromodichloromethane	ug/l	< 5	ISO17025	< 5				
Dibromomethane	ug/l	< 5	ISO17025	< 5				
TAME	ug/l	< 5	ISO17025	< 5				
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5				
Toluene	ug/l	< 5	ISO17025	< 5				
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5				
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10				
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5				
Tetrachloroethene	ug/l	< 5	ISO17025	< 5				
Dibromochloromethane	ug/l	< 5	ISO17025	< 5				
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5				
Chlorobenzene	ug/l	< 5	ISO17025	< 5				
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5				
Ethyl Benzene	ug/l	< 5	ISO17025	< 5				
m,p-Xylene	ug/l	< 10	ISO17025	< 10				
o-Xylene	ug/l	< 5	ISO17025	< 5				
Styrene	ug/l	< 5	ISO17025	< 5				
Bromoform	ug/l	< 10	ISO17025	< 10				
Isopropylbenzene	ug/l	< 5	ISO17025	< 5				
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10				
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5				
n-Propylbenzene	ug/l	< 5	ISO17025	< 5				
Bromobenzene	ug/l	< 5	ISO17025	< 5				
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5				
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5				
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5				
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5				
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5				
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5				
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5				
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5				
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5				
n-Butylbenzene	ug/l	< 5	ISO17025	< 5				
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5				
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10				
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5				

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 22-10821	Date Sampled	14/12/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR014312	Depth (m)	12.74
Reporting Date: 05/01/2023	DETS Sample No	625535

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)

DETS Report No: 22-10821	Date Sampled	14/12/22				
Soiltechnics Ltd	Time Sampled	None Supplied				
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741				
Project / Job Ref: STP3966D	Additional Refs	BH06				
Order No: POR014312	Depth (m)	12.74				
Reporting Date: 05/01/2023	DETS Sample No	625535				

Determinand	Unit	RL	Accreditation	(hs)				
Phenol	ug/l	< 0.1	NONE	< 0.1				
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1				
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1				
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1				
0-Cresol	ug/l	< 0.1	NONE	< 0.1				
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1				
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1				
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1				
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1				
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1				
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1				
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1				
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1				
Isophorone	ug/l	< 0.1	NONE	< 0.1				
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1				
p-Cresol	ug/l	< 0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1				
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1				
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1				
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1				
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1				
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1				
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1				
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1				
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1				
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1				
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1				
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1				
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1				
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1				
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1				
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1				
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1				
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1				
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1				
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1				
Azobenzene	ug/l	< 0.1	NONE	< 0.1				
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1				
Carbazole	ug/l	< 0.1	NONE	< 0.1				
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1				
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1				
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1				

(hs) Please note deviating sample due to head space in container



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 22-10821	Date Sampled	14/12/22
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.741
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR014312	Depth (m)	12.74
Reporting Date: 05/01/2023	DETS Sample No	625535

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-10821	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Area, Corby	
Project / Job Ref: STP3966D	
Order No: POR014312	
Reporting Date: 05/01/2023	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Aromatic C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



Alexa Band
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Derwentside Environmental Testing Services Ltd
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t: 01622 850410

DETS Report No: 23-04624

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR015074

Sample Receipt Date: 03/04/2023

Sample Scheduled Date: 03/04/2023

Report Issue Number: 1

Reporting Date: 13/04/2023

Authorised by:

Kevin Old
Operations Director

Dates of laboratory activities for each tested analyte are available upon request.

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4480

Water Analysis Certificate					
DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	7.0	7.7	7.7	7.8
Total Cyanide	ug/l	< 5	ISO17025	< 5	25	< 5	93
Complex Cyanide	ug/l	< 5	ISO17025	< 5	25	< 5	93
Free Cyanide	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	1160	3800	1170	1870
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	450	9710	253	60100
Ammonia as NH ₄	ug/l	< 50	ISO17025	450	9710	253	60100
Chloride	mg/l	< 1	ISO17025	8	57	8	79
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	< 0.5	< 0.5
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 0.1	NONE	13.8	21.8	25.5	22.7
Chemical Oxygen Demand	mg/l	<10	ISO17025	14	22	22	48
Biological Oxygen Demand	mg/l	< 5	NONE	11	< 5	< 5	< 5
Total Suspended Solids	mg/l	< 5	NONE	381	225	307	615
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Arsenic (dissolved)	ug/l	< 5	ISO17025	11	32	16	8
Boron (dissolved)	ug/l	< 5	ISO17025	748	951	5280	1930
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	1	0.9	2.1
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	21	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	15	24	20	13
Lead (dissolved)	ug/l	< 5	ISO17025	18	99	116	58
Manganese (dissolved)	ug/l	< 5	ISO17025	3850	9760	571	2030
Mercury (dissolved)	ug/l	< 0.05	ISO17025	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	ug/l	< 5	ISO17025	42	41	14	8
Selenium (dissolved)	ug/l	< 5	ISO17025	< 5	23	15	10
Zinc (dissolved)	ug/l	< 2	ISO17025	88	318	1260	122
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	59.8	90.7	134	44.4
Chromium (total)	ug/l	< 5	NONE	33	506	245	149
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724	
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72	
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204	

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	0.18	0.30	< 0.01	0.10
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	0.18	0.30	< 0.16	< 0.16



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Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724	
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72	
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204	

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C6 - C8 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C8 - C10 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C10 - C12 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C12 - C16 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C16 - C21 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic >C21 - C34 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	
Aromatic >C5 - C7 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C7 - C8 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C8 - C10 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C10 - C12 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C12 - C16 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C16 - C21 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic >C21 - C35 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	



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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724	
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72	
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204	

Determinand	Unit	RL	Accreditation					
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	



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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5
,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871
Project / Job Ref: STP3966D	Additional Refs	BH04
Order No: POR015074	Depth (m)	9.87
Reporting Date: 13/04/2023	DETS Sample No	645201

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH058.993
Project / Job Ref: STP3966D	Additional Refs	BH05
Order No: POR015074	Depth (m)	8.99
Reporting Date: 13/04/2023	DETS Sample No	645202

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.942
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR015074	Depth (m)	12.94
Reporting Date: 13/04/2023	DETS Sample No	645203

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH099.724
Project / Job Ref: STP3966D	Additional Refs	BH09
Order No: POR015074	Depth (m)	9.72
Reporting Date: 13/04/2023	DETS Sample No	645204

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 23-04624	Date Sampled	30/03/23	30/03/23	30/03/23	30/03/23	
Soiltechnics Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871	BH058.993	BH0612.942	BH099.724	
Project / Job Ref: STP3966D	Additional Refs	BH04	BH05	BH06	BH09	
Order No: POR015074	Depth (m)	9.87	8.99	12.94	9.72	
Reporting Date: 13/04/2023	DETS Sample No	645201	645202	645203	645204	

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	7.4	20.3	7.5	
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH049.871
Project / Job Ref: STP3966D	Additional Refs	BH04
Order No: POR015074	Depth (m)	9.87
Reporting Date: 13/04/2023	DETS Sample No	645201

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH058.993
Project / Job Ref: STP3966D	Additional Refs	BH05
Order No: POR015074	Depth (m)	8.99
Reporting Date: 13/04/2023	DETS Sample No	645202

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH0612.942
Project / Job Ref: STP3966D	Additional Refs	BH06
Order No: POR015074	Depth (m)	12.94
Reporting Date: 13/04/2023	DETS Sample No	645203

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 23-04624	Date Sampled	30/03/23
Soiltechnics Ltd	Time Sampled	None Supplied
Site Reference: Rockingham Enterprise Area, Corby	TP / BH No	BH099.724
Project / Job Ref: STP3966D	Additional Refs	BH09
Order No: POR015074	Depth (m)	9.72
Reporting Date: 13/04/2023	DETS Sample No	645204

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 23-04624	
Soiltechnics Ltd	
Site Reference: Rockingham Enterprise Area, Corby	
Project / Job Ref: STP3966D	
Order No: POR015074	
Reporting Date: 13/04/2023	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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4480

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Aromatic C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



Admin
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White Lodge
Cedar Barn
Walgrave
NN6 9PY

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DETS Report No: 24-04170

Site Reference: Rockingham Enterprise Area, Corby

Project / Job Ref: STP3966D

Order No: POR018500

Sample Receipt Date: 19/04/2024

Sample Scheduled Date: 19/04/2024

Report Issue Number: 1

Reporting Date: 29/04/2024

Authorised by:

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Water Analysis Certificate

DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH049.704	BH0510.335	BH0611.863	BH099.008	LG119.321
~Project / Job Ref: STP3966D	~Additional Refs	BH04	BH05	BH06	BH09	LG11
~Order No: POR018500	~Depth (m)	9.70	10.33	11.86	9.00	9.32
Reporting Date: 29/04/2024	DETS Sample No	710559	710560	710561	710562	710563

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	7.7	7.7	7.7	7.8	7.7
Total Cyanide	ug/l	< 5	ISO17025	8	< 5	14	210	102
Complex Cyanide	ug/l	< 5	ISO17025	8	< 5	14	210	102
Free Cyanide	ug/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	1780	987	805	1370	601
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	5370	434	77	40700	398
Ammonia as NH ₄	ug/l	< 50	ISO17025	5370	434	77	40700	398
Chloride	mg/l	< 1	ISO17025	30	9	44	69	180
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	43.8	< 0.5	75
Nitrite as NO ₂	mg/l	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	7
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	< 0.5	< 0.5	1.7	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 1.0	ISO17025	20.3	22.9	28.8	19.6	20.5
Chemical Oxygen Demand	mg/l	< 5	ISO17025	25	22	33	61	41
Biological Oxygen Demand	mg/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	< 5	NONE	6	6	5	5	12
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 0.2	ISO17025	< 0.2	1.0	0.7	0.3	0.2
Arsenic (dissolved)	ug/l	< 0.2	ISO17025	14.3	13.2	16.2	7.6	1.2
Boron (dissolved)	ug/l	< 1	ISO17025	300	229	5060	1440	813
Cadmium (dissolved)	ug/l	< 0.2	ISO17025	< 0.2	1	2	1.2	< 0.2
Chromium (dissolved)	ug/l	< 0.2	ISO17025	4.8	3.0	3.9	3.7	2.2
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 0.2	ISO17025	6.7	12.6	41.3	18.5	10.8
Lead (dissolved)	ug/l	< 0.2	ISO17025	13.4	8.9	69.0	31.3	1.0
Manganese (dissolved)	ug/l	< 0.2	ISO17025	3220.0	2810.0	923.0	3530.0	82.9
Mercury (dissolved)	ug/l	< 0.04	ISO17025	< 0.04	0.19	0.08	0.06	0.04
Nickel (dissolved)	ug/l	< 0.2	ISO17025	26.1	56.3	12.2	8.3	3.2
Selenium (dissolved)	ug/l	< 0.2	ISO17025	5.3	6.3	52.7	8.6	0.5
Zinc (dissolved)	ug/l	< 1	ISO17025	356	202	1930	483	247
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	75.1	47.8	121	49.1	23.9
Chromium (total)	ug/l	< 0.3	ISO17025	118.0	20.0	90.7	111.0	2.4
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)
Insufficient sample ^{US}
Unsuitable Sample ^{US}
~ Sample details provided by the customer



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Water Analysis Certificate

DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LG99.562	LL610.936	SW10.009	SW20.0010	SW30.008
~Project / Job Ref: STP3966D	~Additional Refs	LG9	LL6	SW1	SW2	SW3
~Order No: POR018500	~Depth (m)	9.56	10.93	0.00	0.00	0.00
Reporting Date: 29/04/2024	DETS Sample No	710564	710565	710566	710567	710568

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	ISO17025	8.1	7.8	8.3	8.2	8.2
Total Cyanide	ug/l	< 5	ISO17025	138	13	9	20	19
Complex Cyanide	ug/l	< 5	ISO17025	138	13	9	20	19
Free Cyanide	ug/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Sulphate as SO ₄	mg/l	< 1	ISO17025	849	1640	84	104	90
Ammoniacal Nitrogen as NH ₄	ug/l	< 50	ISO17025	13800	150	96	72	55
Ammonia as NH ₄	ug/l	< 50	ISO17025	13800	150	96	72	55
Chloride	mg/l	< 1	ISO17025	65	9	47	49	49
Nitrate as NO ₃	mg/l	< 0.5	ISO17025	3.1	4.6	15.5	11	11.3
Nitrite as NO ₂	mg/l	< 0.5	NONE	1.6	1.1	< 0.5	< 0.5	< 0.5
Phosphate as PO ₄	mg/l	< 1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoride	mg/l	< 0.5	ISO17025	2.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Organic Carbon (TOC)	mg/l	< 1.0	ISO17025	24.5	17.1	12.9	11	11.3
Chemical Oxygen Demand	mg/l	< 5	ISO17025	41	20	21	28	21
Biological Oxygen Demand	mg/l	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Total Suspended Solids	mg/l	< 5	NONE	7	6	16	9	< 5
Carbonate (Alkalinity as CaCO ₃)	mg/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Antimony (dissolved)	ug/l	< 0.2	ISO17025	0.2	1.6	1.8	3.9	2.8
Arsenic (dissolved)	ug/l	< 0.2	ISO17025	3.9	3.2	2.3	3.6	2.4
Boron (dissolved)	ug/l	< 1	ISO17025	2750	1160	74	118	97
Cadmium (dissolved)	ug/l	< 0.2	ISO17025	< 0.2	1.8	1	2.3	1
Chromium (dissolved)	ug/l	< 0.2	ISO17025	1.2	3.5	2.1	4.8	2.2
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Chromium III	ug/l	< 20	NONE	< 20	< 20	< 20	< 20	< 20
Copper (dissolved)	ug/l	< 0.2	ISO17025	39.1	72.0	6.0	8.4	4.1
Lead (dissolved)	ug/l	< 0.2	ISO17025	7.6	7.0	1.9	2.9	1.8
Manganese (dissolved)	ug/l	< 0.2	ISO17025	5550.0	2150.0	27.8	50.2	20.8
Mercury (dissolved)	ug/l	< 0.04	ISO17025	< 0.04	0.16	0.10	0.24	0.10
Nickel (dissolved)	ug/l	< 0.2	ISO17025	7.4	13.8	2.7	4.1	2.4
Selenium (dissolved)	ug/l	< 0.2	ISO17025	2.1	3.2	1.8	3.3	1.7
Zinc (dissolved)	ug/l	< 1	ISO17025	205	309	171	213	167
Magnesium (dissolved)	mg/l	< 0.1	ISO17025	49	108	8.6	10.8	9
Chromium (total)	ug/l	< 0.3	ISO17025	19.3	10.2	2.7	2.6	1.5
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

Subcontracted analysis ^(S)
Insufficient sample ^{US}
Unsuitable Sample ^{US}
~ Sample details provided by the customer



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Water Analysis Certificate - Speciated PAH						
DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH049.704	BH0510.335	BH0611.863	BH099.008	LG119.321
~Project / Job Ref: STP3966D	~Additional Refs	BH04	BH05	BH06	BH09	LG11
~Order No: POR018500	~Depth (m)	9.70	10.33	11.86	9.00	9.32
Reporting Date: 29/04/2024	DETS Sample No	710559	710560	710561	710562	710563

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16

~ Sample details provided by the customer



Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
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Maidstone
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Tel : 01622 850410

Water Analysis Certificate - Speciated PAH					
DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LG99.562	LL610.936	SW10.009	SW20.0010
~Project / Job Ref: STP3966D	~Additional Refs	LG9	LL6	SW1	SW2
~Order No: POR018500	~Depth (m)	9.56	10.93	0.00	0.00
Reporting Date: 29/04/2024	DETS Sample No	710564	710565	710566	710567

Determinand	Unit	RL	Accreditation					
Naphthalene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16

~ Sample details provided by the customer



Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
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Tel : 01622 850410

Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise	~TP / BH No	BH049.704	BH0510.335	BH0611.863	BH099.008	LG119.321
Area: Corby	~Additional Refs	BH04	BH05	BH06	BH09	LG11
~Project / Job Ref: STP3966D	~Depth (m)	9.70	10.33	11.86	9.00	9.32
~Order No: POR018500	DETS Sample No	710559	710560	710561	710562	710563
Reporting Date: 29/04/2024						

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140

~ Sample details provided by the customer



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Maidstone
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Water Analysis Certificate - TPH CWG Banded						
DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise	~TP / BH No	LG99.562	LL610.936	SW10.009	SW20.0010	SW30.008
Area: Corby	~Additional Refs	LG9	LL6	SW1	SW2	SW3
~Project / Job Ref: STP3966D	~Depth (m)	9.56	10.93	0.00	0.00	0.00
~Order No: POR018500	DETS Sample No	710564	710565	710566	710567	710568
Reporting Date: 29/04/2024						

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C6 - C8 : HS_1D_MS_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C8 - C10 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C10 - C12 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C12 - C16 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C16 - C21 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic >C21 - C34 : EH_CU_1D_AL	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Aromatic >C5 - C7 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C7 - C8 : HS_1D_MS_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C8 - C10 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C10 - C12 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C12 - C16 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C16 - C21 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic >C21 - C35 : EH_CU_1D_AR	ug/l	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	ug/l	< 70	NONE	< 70	< 70	< 70	< 70	< 70
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	ug/l	< 140	NONE	< 140	< 140	< 140	< 140	< 140

~ Sample details provided by the customer



Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
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Lenham Heath
Maidstone
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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH049.704	BH0510.335	BH0611.863	BH099.008	LG119.321
~Project / Job Ref: STP3966D	~Additional Refs	BH04	BH05	BH06	BH09	LG11
~Order No: POR018500	~Depth (m)	9.70	10.33	11.86	9.00	9.32
Reporting Date: 29/04/2024	DETS Sample No	710559	710560	710561	710562	710563

Determinand	Unit	RL	Accreditation					
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

~ Sample details provided by the customer



Normec DETS Limited
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Lenham Heath
Maidstone
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Water Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LG99.562	LL610.936	SW10.009	SW20.0010	SW30.008
~Project / Job Ref: STP3966D	~Additional Refs	LG9	LL6	SW1	SW2	SW3
~Order No: POR018500	~Depth (m)	9.56	10.93	0.00	0.00	0.00
Reporting Date: 29/04/2024	DETS Sample No	710564	710565	710566	710567	710568

Determinand	Unit	RL	Accreditation					
Benzene : HS_1D_MS	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
Toluene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethylbenzene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p & m-xylene : HS_1D_MS	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-xylene : HS_1D_MS	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE : HS_1D_MS	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10

~ Sample details provided by the customer



Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH049.704	BH0510.335	BH0611.863	BH099.008	LG119.321
~Project / Job Ref: STP3966D	~Additional Refs	BH04	BH05	BH06	BH09	LG11
~Order No: POR018500	~Depth (m)	9.70	10.33	11.86	9.00	9.32
Reporting Date: 29/04/2024	DETS Sample No	710559	710560	710561	710562	710563

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5

~ Sample details provided by the customer



Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
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Water Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LG99.562	LL610.936	SW10.009	SW20.0010	SW30.008
~Project / Job Ref: STP3966D	~Additional Refs	LG9	LL6	SW1	SW2	SW3
~Order No: POR018500	~Depth (m)	9.56	10.93	0.00	0.00	0.00
Reporting Date: 29/04/2024	DETS Sample No	710564	710565	710566	710567	710568

Determinand	Unit	RL	Accreditation					
Dichlorodifluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
MTBE	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
trans-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chloroform	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromochloromethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,1,1-Trichloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 1	ISO17025	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Trichloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromomethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
TAME	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Toluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,3-Dichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromoethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,1,2-Tetrachloroethane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Ethyl Benzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
m,p-Xylene	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Styrene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Isopropylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Propylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
Bromobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
2-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3,5-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
4-Chlorotoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
tert-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
sec-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
p-Isopropyltoluene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
n-Butylbenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	ug/l	< 10	ISO17025	< 10	< 10	< 10	< 10	< 10
Hexachlorobutadiene	ug/l	< 5	ISO17025	< 5	< 5	< 5	< 5	< 5

~ Sample details provided by the customer



Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH049.704
~Project / Job Ref: STP3966D	~Additional Refs	BH04
~Order No: POR018500	~Depth (m)	9.70
Reporting Date: 29/04/2024	DETS Sample No	710559

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%

~ Sample details provided by the customer



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH0510.335
~Project / Job Ref: STP3966D	~Additional Refs	BH05
~Order No: POR018500	~Depth (m)	10.33
Reporting Date: 29/04/2024	DETS Sample No	710560

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH0611.863
~Project / Job Ref: STP3966D	~Additional Refs	BH06
~Order No: POR018500	~Depth (m)	11.86
Reporting Date: 29/04/2024	DETS Sample No	710561

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH099.008
~Project / Job Ref: STP3966D	~Additional Refs	BH09
~Order No: POR018500	~Depth (m)	9.00
Reporting Date: 29/04/2024	DETS Sample No	710562

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LG119.321
~Project / Job Ref: STP3966D	~Additional Refs	LG11
~Order No: POR018500	~Depth (m)	9.32
Reporting Date: 29/04/2024	DETS Sample No	710563

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LG99.562
~Project / Job Ref: STP3966D	~Additional Refs	LG9
~Order No: POR018500	~Depth (m)	9.56
Reporting Date: 29/04/2024	DETS Sample No	710564

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LL610.936
~Project / Job Ref: STP3966D	~Additional Refs	LL6
~Order No: POR018500	~Depth (m)	10.93
Reporting Date: 29/04/2024	DETS Sample No	710565

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	SW10.009
~Project / Job Ref: STP3966D	~Additional Refs	SW1
~Order No: POR018500	~Depth (m)	0.00
Reporting Date: 29/04/2024	DETS Sample No	710566

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	SW20.0010
~Project / Job Ref: STP3966D	~Additional Refs	SW2
~Order No: POR018500	~Depth (m)	0.00
Reporting Date: 29/04/2024	DETS Sample No	710567

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Volatile Organic Compounds TIC (VOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	SW30.008
~Project / Job Ref: STP3966D	~Additional Refs	SW3
~Order No: POR018500	~Depth (m)	0.00
Reporting Date: 29/04/2024	DETS Sample No	710568

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 5	< 5
2	N/a	N/a	µg/l	< 5	< 5
3	N/a	N/a	µg/l	< 5	< 5
4	N/a	N/a	µg/l	< 5	< 5
5	N/a	N/a	µg/l	< 5	< 5

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)					
DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH049.704	BH0510.335	BH0611.863	BH099.008
~Project / Job Ref: STP3966D	~Additional Refs	BH04	BH05	BH06	BH09
~Order No: POR018500	~Depth (m)	9.70	10.33	11.86	9.00
Reporting Date: 29/04/2024	DETS Sample No	710559	710560	710561	710562

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

~ Sample details provided by the customer



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Water Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 24-04170	~Date Sampled	17/04/24	17/04/24	17/04/24	17/04/24	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LG99.562	LL610.936	SW10.009	SW20.0010	SW30.008
~Project / Job Ref: STP3966D	~Additional Refs	LG9	LL6	SW1	SW2	SW3
~Order No: POR018500	~Depth (m)	9.56	10.93	0.00	0.00	0.00
Reporting Date: 29/04/2024	DETS Sample No	710564	710565	710566	710567	710568

Determinand	Unit	RL	Accreditation					
Phenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
0-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethoxy)methane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-chloroethyl)ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,3-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-Dichlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Isophorone	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachloroethane	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
p-Cresol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorocyclopentadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitrophenol	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
3-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Nitroaniline	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Bromophenyl phenyl ether	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzofuran	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Azobenzene	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibutyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Carbazole	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
bis(2-ethylhexyl)phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzyl butyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Di-n-octyl phthalate	ug/l	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

~ Sample details provided by the customer



Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH049.704
~Project / Job Ref: STP3966D	~Additional Refs	BH04
~Order No: POR018500	~Depth (m)	9.70
Reporting Date: 29/04/2024	DETS Sample No	710559

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%

~ Sample details provided by the customer



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Tel : 01622 850410

Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH0510.335
~Project / Job Ref: STP3966D	~Additional Refs	BH05
~Order No: POR018500	~Depth (m)	10.33
Reporting Date: 29/04/2024	DETS Sample No	710560

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH0611.863
~Project / Job Ref: STP3966D	~Additional Refs	BH06
~Order No: POR018500	~Depth (m)	11.86
Reporting Date: 29/04/2024	DETS Sample No	710561

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	BH099.008
~Project / Job Ref: STP3966D	~Additional Refs	BH09
~Order No: POR018500	~Depth (m)	9.00
Reporting Date: 29/04/2024	DETS Sample No	710562

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LG119.321
~Project / Job Ref: STP3966D	~Additional Refs	LG11
~Order No: POR018500	~Depth (m)	9.32
Reporting Date: 29/04/2024	DETS Sample No	710563

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LG99.562
~Project / Job Ref: STP3966D	~Additional Refs	LG9
~Order No: POR018500	~Depth (m)	9.56
Reporting Date: 29/04/2024	DETS Sample No	710564

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	LL610.936
~Project / Job Ref: STP3966D	~Additional Refs	LL6
~Order No: POR018500	~Depth (m)	10.93
Reporting Date: 29/04/2024	DETS Sample No	710565

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	SW10.009
~Project / Job Ref: STP3966D	~Additional Refs	SW1
~Order No: POR018500	~Depth (m)	0.00
Reporting Date: 29/04/2024	DETS Sample No	710566

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	SW20.0010
~Project / Job Ref: STP3966D	~Additional Refs	SW2
~Order No: POR018500	~Depth (m)	0.00
Reporting Date: 29/04/2024	DETS Sample No	710567

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Semi Volatile Organic Compounds TIC (SVOC)		
DETS Report No: 24-04170	~Date Sampled	17/04/24
Soiltechnics Ltd	~Time Sampled	None Supplied
~Site Reference: Rockingham Enterprise Area, Corby	~TP / BH No	SW30.008
~Project / Job Ref: STP3966D	~Additional Refs	SW3
~Order No: POR018500	~Depth (m)	0.00
Reporting Date: 29/04/2024	DETS Sample No	710568

Compound No	Compound Name	% Match	Units	RL	Estimated Concentration
1	N/a	N/a	µg/l	< 0.1	< 0.1
2	N/a	N/a	µg/l	< 0.1	< 0.1
3	N/a	N/a	µg/l	< 0.1	< 0.1
4	N/a	N/a	µg/l	< 0.1	< 0.1
5	N/a	N/a	µg/l	< 0.1	< 0.1

There were no / other compounds identified with a match of >90%



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Water Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 24-04170

Soiltechnics Ltd

~Site Reference: Rockingham Enterprise Area, Corby

~Project / Job Ref: STP3966D

~Order No: POR018500

Reporting Date: 29/04/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	U	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	UF	Biological Oxygen Demand (BOD)	Determination using BOD sensors measuring the change of pressure	E133
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered

UF Unfiltered

~ Sample details provided by the customer



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List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH 2D Total but with humics mathematically subtracted
#2	EH 2D Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS Total or EH_CU+HS Total
~	Sample details provided by the customer

Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Aromatic C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



2183

Final Report

Report No.: 24-24686-1

Initial Date of Issue: 09-Aug-2024

Re-Issue Details:

Client Soiltechnics Limited

Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STP3966D Rockingham Enterprise
Area, Corby

Quotation No.: Q24-35522

Date Received: 02-Aug-2024

Order No.: POR019397

Date Instructed: 02-Aug-2024

No. of Samples: 9

Turnaround (Wkdays): 5

Results Due: 08-Aug-2024

Date Approved: 09-Aug-2024

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:											
Quotation No.: Q24-35522		Chemtest Sample ID.:											
Order No.: POR019397		Client Sample Ref.:											
		Client Sample ID.:											
		Sample Location:											
		Sample Type:											
		Sample Sub Type:											
		Top Depth (m):											
		Date Sampled:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
pH at 20C		U	1010		4.0	7.1	7.7	7.4	8.1	7.8	8.7	8.2	8.5
Electrical Conductivity at 25C		U	1020	µS/cm	1.0	4100	2300	2600	3200	2300	2000	910	780
Suspended Solids At 105C		U	1030	mg/l	5.0	19000	14000	1300	2500	570	1300	21	7.0
Biochemical Oxygen Demand		N	1090	mg O2/l	4.0	23	22	29	31	31	33	30	7.8
Chemical Oxygen Demand		U	1100	mg O2/l	10	93	88	110	130	120	130	120	31
Alkalinity (Total)		U	1220	mg/l	10	660	480	590	190	320	630	210	210
Chloride		U	1220	mg/l	1.0	35	13	93	78	220	28	99	64
Fluoride		U	1220	mg/l	0.050	0.11	0.34	2.0	0.37	0.18	4.2	0.31	0.35
Ammoniacal Nitrogen		U	1220	mg/l	0.050	4.3	0.28	0.12	28	0.066	2.9	< 0.050	0.93
Nitrite as NO2		U	1220	mg/l	0.020	< 0.020	< 0.020	< 0.020	0.071	0.44	0.71	< 0.020	0.47
Nitrate as NO3		U	1220	mg/l	0.50	< 0.50	< 0.50	1.9	< 0.50	220	9.0	< 0.50	1.5
Phosphorus (Dissolved)		N	1220	mg/l	0.020	0.022	0.031	0.029	0.040	0.031	0.070	0.43	0.57
Phosphate		U	1220	mg/l	0.200	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.21	1.3	1.7
Sulphate		U	1220	mg/l	1.0	2600	1200	1100	1600	590	560	110	110
Cyanide (Total)		U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	0.23	0.090	0.15	< 0.050	< 0.050
Cyanide (Free)		U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Complex)		U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	0.23	0.090	0.15	< 0.050	< 0.050
Sulphide		U	1325	mg/l	0.050	0.16	0.14	0.15	0.14	0.14	0.15	0.14	0.16
Calcium (Dissolved)		U	1455	mg/l	2.00	640	540	430	400	310	44	110	110
Potassium (Dissolved)		U	1455	mg/l	0.50	10	6.2	63	170	67	88	9.1	11
Sodium (Dissolved)		U	1455	mg/l	1.50	520	64	120	210	200	350	77	63
Total Hardness as CaCO3		U	1270	mg/l	15	2000	1600	1700	1200	910	340	320	310
Arsenic (Dissolved)		U	1455	µg/l	0.20	5.8	0.75	0.73	1.1	0.71	1.6	1.7	2.7
Boron (Dissolved)		U	1455	µg/l	10.0	260	140	4700	1700	820	4300	290	180
Barium (Dissolved)		U	1455	µg/l	5.00	28	20	24	37	72	27	32	33
Beryllium (Dissolved)		U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	0.59	< 0.11	< 0.11	< 0.11	< 0.11
Cobalt (Dissolved)		U	1455	µg/l	0.50	19	11	3.1	16	45	11	0.70	0.79
Chromium (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	6.2	< 0.50	< 0.50	6.9
Copper (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	1.9	1.8	4.2	4.3	0.82	3.3
Iron (Dissolved)		N	1455	µg/l	5.0	< 5.0	< 5.0	< 5.0	92	24	23	290	130
Mercury (Dissolved)		U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)		U	1455	µg/l	0.50	2300	1900	9.6	3100	41	1100	93	7.2
Molybdenum (Dissolved)		U	1455	µg/l	0.20	0.84	4.7	2.8	1.8	0.20	11	1.2	1.6
Nickel (Dissolved)		U	1455	µg/l	0.50	28	57	7.2	6.0	2.4	0.92	1.7	1.7
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.88	0.53
Antimony (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.75	0.70

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:											
Quotation No.: Q24-35522		Chemtest Sample ID.:											
Order No.: POR019397		Client Sample Ref.:											
		Client Sample ID.:											
		Sample Location:											
		Sample Type:											
		Sample Sub Type:											
		Top Depth (m):											
		Date Sampled:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Selenium (Dissolved)		U	1455	µg/l	0.50	1.2	0.64	5.7	1.2	0.95	0.69	0.55	0.80
Tin (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.1	0.68	1.8	< 0.50
Vanadium (Dissolved)		U	1455	µg/l	0.50	0.84	< 0.50	0.77	1.9	< 0.50	0.67	0.62	1.4
Zinc (Dissolved)		U	1455	µg/l	2.5	35	37	35	49	9.7	50	35	43
Chromium (Hexavalent)		U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Total Organic Carbon		U	1610	mg/l	2.0	3.2	4.0	7.2	12	8.2	4.9	7.6	2.9
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:											
Quotation No.: Q24-35522		Chemtest Sample ID.:											
Order No.: POR019397		Client Sample Ref.:											
		Client Sample ID.:											
		Sample Location:											
		Sample Type:											
		Sample Sub Type:											
		Top Depth (m):											
		Date Sampled:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
1,1,1-Trichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane		U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bromodichloromethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane		U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane		U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane		N	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:											
Quotation No.: Q24-35522		Chemtest Sample ID.:											
Order No.: POR019397		Client Sample Ref.:											
		Client Sample ID.:											
		Sample Location:											
		Sample Type:											
		Sample Sub Type:											
		Top Depth (m):											
		Date Sampled:											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
N-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane		U	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.: 24-24686 24-24686 24-24686 24-24686 24-24686 24-24686 24-24686 24-24686 24-24686											
Quotation No.: Q24-35522		Chemtest Sample ID.: 1845043 1845044 1845045 1845046 1845047 1845048 1845049 1845050											
Order No.: POR019397		Client Sample Ref.: 12 12 12 12 12 12 12 12 12											
		Client Sample ID.: BH046.6212 BH059.4112 BH0612.9712 BH0910.4812 LG1110.3812 LG910.3912 SW10.0012 SW20.0012											
		Sample Location: BH04 BH05 BH06 BH09 LG11 LG9 SW1 SW2											
		Sample Type: WATER WATER WATER WATER WATER WATER WATER WATER											
		Sample Sub Type:											
		Top Depth (m): 6.62 9.41 12.97 10.48 10.38 10.39 0.00 0.00											
		Date Sampled: 31-Jul-2024 31-Jul-2024 31-Jul-2024 31-Jul-2024 31-Jul-2024 31-Jul-2024 31-Jul-2024 31-Jul-2024											
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
2,6-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbazole		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:		24-24686	24-24686	24-24686	24-24686	24-24686	24-24686	24-24686	24-24686	24-24686	24-24686
Quotation No.: Q24-35522		Chemtest Sample ID.:		1845043	1845044	1845045	1845046	1845047	1845048	1845049	1845050		
Order No.: POR019397		Client Sample Ref.:		12	12	12	12	12	12	12	12	12	12
		Client Sample ID.:		BH046.6212	BH059.4112	BH0612.9712	BH0910.4812	LG1110.3812	LG910.3912	SW10.0012	SW20.0012		
		Sample Location:		BH04	BH05	BH06	BH09	LG11	LG9	SW1	SW2		
		Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
		Sample Sub Type:											
		Top Depth (m):		6.62	9.41	12.97	10.48	10.38	10.39	0.00	0.00		
		Date Sampled:		31-Jul-2024	31-Jul-2024	31-Jul-2024	31-Jul-2024	31-Jul-2024	31-Jul-2024	31-Jul-2024	31-Jul-2024	31-Jul-2024	31-Jul-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
PCB 28		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 101		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total PCBs (7 congeners)		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Resorcinol		U	1920	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Phenol		U	1920	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0090	< 0.0050
Cresols		U	1920	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.024	< 0.0050
Xylenols		U	1920	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
1-Naphthol		N	1920	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Trimethylphenols		U	1920	mg/l	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Total Phenols		U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	0.033	< 0.030

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:		24-24686		
Quotation No.: Q24-35522		Chemtest Sample ID.:		1845051		
Order No.: POR019397		Client Sample Ref.:		12		
		Client Sample ID.:		SW30.0012		
		Sample Location:		SW3		
		Sample Type:		WATER		
		Sample Sub Type:				
		Top Depth (m):		0.00		
		Date Sampled:		31-Jul-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
pH at 20C		U	1010		4.0	8.4
Electrical Conductivity at 25C		U	1020	µS/cm	1.0	850
Suspended Solids At 105C		U	1030	mg/l	5.0	7.0
Biochemical Oxygen Demand		N	1090	mg O2/l	4.0	24
Chemical Oxygen Demand		U	1100	mg O2/l	10	97
Alkalinity (Total)		U	1220	mg/l	10	230
Chloride		U	1220	mg/l	1.0	73
Fluoride		U	1220	mg/l	0.050	0.34
Ammoniacal Nitrogen		U	1220	mg/l	0.050	1.1
Nitrite as NO2		U	1220	mg/l	0.020	< 0.020
Nitrate as NO3		U	1220	mg/l	0.50	< 0.50
Phosphorus (Dissolved)		N	1220	mg/l	0.020	0.63
Phosphate		U	1220	mg/l	0.200	1.9
Sulphate		U	1220	mg/l	1.0	110
Cyanide (Total)		U	1300	mg/l	0.050	< 0.050
Cyanide (Free)		U	1300	mg/l	0.050	< 0.050
Cyanide (Complex)		U	1300	mg/l	0.050	< 0.050
Sulphide		U	1325	mg/l	0.050	0.12
Calcium (Dissolved)		U	1455	mg/l	2.00	110
Potassium (Dissolved)		U	1455	mg/l	0.50	12
Sodium (Dissolved)		U	1455	mg/l	1.50	71
Total Hardness as CaCO3		U	1270	mg/l	15	320
Arsenic (Dissolved)		U	1455	µg/l	0.20	2.6
Boron (Dissolved)		U	1455	µg/l	10.0	150
Barium (Dissolved)		U	1455	µg/l	5.00	32
Beryllium (Dissolved)		U	1455	µg/l	1.00	< 1.0
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11
Cobalt (Dissolved)		U	1455	µg/l	0.50	1.6
Chromium (Dissolved)		U	1455	µg/l	0.50	0.67
Copper (Dissolved)		U	1455	µg/l	0.50	1.2
Iron (Dissolved)		N	1455	µg/l	5.0	240
Mercury (Dissolved)		U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)		U	1455	µg/l	0.50	770
Molybdenum (Dissolved)		U	1455	µg/l	0.20	1.8
Nickel (Dissolved)		U	1455	µg/l	0.50	1.9
Lead (Dissolved)		U	1455	µg/l	0.50	0.52
Antimony (Dissolved)		U	1455	µg/l	0.50	0.68

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:		24-24686		
Quotation No.: Q24-35522		Chemtest Sample ID.:		1845051		
Order No.: POR019397		Client Sample Ref.:		12		
		Client Sample ID.:		SW30.0012		
		Sample Location:		SW3		
		Sample Type:		WATER		
		Sample Sub Type:				
		Top Depth (m):		0.00		
		Date Sampled:		31-Jul-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Selenium (Dissolved)		U	1455	µg/l	0.50	0.70
Tin (Dissolved)		U	1455	µg/l	0.50	< 0.50
Vanadium (Dissolved)		U	1455	µg/l	0.50	0.90
Zinc (Dissolved)		U	1455	µg/l	2.5	47
Chromium (Hexavalent)		U	1490	µg/l	20	< 20
Total Organic Carbon		U	1610	mg/l	2.0	7.9
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10
Dichlorodifluoromethane		U	1760	µg/l	1.0	< 1.0
Chloromethane		U	1760	µg/l	1.0	< 1.0
Vinyl Chloride		N	1760	µg/l	1.0	< 1.0
Bromomethane		U	1760	µg/l	5	< 5
Chloroethane		U	1760	µg/l	2.0	< 2.0
Trichlorofluoromethane		U	1760	µg/l	1.0	< 1.0
1,1-Dichloroethene		U	1760	µg/l	1.0	< 1.0
Trans 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0
1,1-Dichloroethane		U	1760	µg/l	1.0	< 1.0
cis 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0
Bromochloromethane		U	1760	µg/l	5	< 5
Trichloromethane		U	1760	µg/l	1.0	< 1.0

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:		24-24686		
Quotation No.: Q24-35522		Chemtest Sample ID.:		1845051		
Order No.: POR019397		Client Sample Ref.:		12		
		Client Sample ID.:		SW30.0012		
		Sample Location:		SW3		
		Sample Type:		WATER		
		Sample Sub Type:				
		Top Depth (m):		0.00		
		Date Sampled:		31-Jul-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
1,1,1-Trichloroethane		U	1760	µg/l	1.0	< 1.0
Tetrachloromethane		U	1760	µg/l	1.0	< 1.0
1,1-Dichloropropene		U	1760	µg/l	1.0	< 1.0
Benzene		U	1760	µg/l	1.0	< 1.0
1,2-Dichloroethane		U	1760	µg/l	2.0	< 2.0
Trichloroethene		N	1760	µg/l	1.0	< 1.0
1,2-Dichloropropane		U	1760	µg/l	1.0	< 1.0
Dibromomethane		U	1760	µg/l	10	< 10
Bromodichloromethane		U	1760	µg/l	5	< 5
cis-1,3-Dichloropropene		N	1760	µg/l	10	< 10
Toluene		U	1760	µg/l	1.0	< 1.0
Trans-1,3-Dichloropropene		N	1760	µg/l	10	< 10
1,1,2-Trichloroethane		U	1760	µg/l	10	< 10
Tetrachloroethene		U	1760	µg/l	1.0	< 1.0
1,3-Dichloropropane		U	1760	µg/l	2.0	< 2.0
Dibromochloromethane		U	1760	µg/l	10	< 10
1,2-Dibromoethane		U	1760	µg/l	5	< 5
Chlorobenzene		N	1760	µg/l	1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	1760	µg/l	2.0	< 2.0
Ethylbenzene		U	1760	µg/l	1.0	< 1.0
m & p-Xylene		U	1760	µg/l	1.0	< 1.0
o-Xylene		U	1760	µg/l	1.0	< 1.0
Styrene		U	1760	µg/l	1.0	< 1.0
Tribromomethane		U	1760	µg/l	1.0	< 1.0
Isopropylbenzene		U	1760	µg/l	1.0	< 1.0
Bromobenzene		U	1760	µg/l	1.0	< 1.0
1,2,3-Trichloropropane		N	1760	µg/l	50	< 50
N-Propylbenzene		U	1760	µg/l	1.0	< 1.0
2-Chlorotoluene		U	1760	µg/l	1.0	< 1.0
1,3,5-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0
4-Chlorotoluene		U	1760	µg/l	1.0	< 1.0
Tert-Butylbenzene		U	1760	µg/l	1.0	< 1.0
1,2,4-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0
Sec-Butylbenzene		U	1760	µg/l	1.0	< 1.0
1,3-Dichlorobenzene		N	1760	µg/l	1.0	< 1.0
4-Isopropyltoluene		U	1760	µg/l	1.0	< 1.0
1,4-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:		24-24686		
Quotation No.: Q24-35522		Chemtest Sample ID.:		1845051		
Order No.: POR019397		Client Sample Ref.:		12		
		Client Sample ID.:		SW30.0012		
		Sample Location:		SW3		
		Sample Type:		WATER		
		Sample Sub Type:				
		Top Depth (m):		0.00		
		Date Sampled:		31-Jul-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
N-Butylbenzene		U	1760	µg/l	1.0	< 1.0
1,2-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0
1,2-Dibromo-3-Chloropropane		U	1760	µg/l	50	< 50
1,2,4-Trichlorobenzene		U	1760	µg/l	1.0	< 1.0
Hexachlorobutadiene		U	1760	µg/l	1.0	< 1.0
1,2,3-Trichlorobenzene		U	1760	µg/l	2.0	< 2.0
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0
N-Nitrosodimethylamine		N	1790	µg/l	0.50	< 0.50
Phenol		N	1790	µg/l	0.50	< 0.50
2-Chlorophenol		N	1790	µg/l	0.50	< 0.50
Bis-(2-Chloroethyl)Ether		N	1790	µg/l	0.50	< 0.50
1,3-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50
1,4-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50
1,2-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50
2-Methylphenol (o-Cresol)		N	1790	µg/l	0.50	< 0.50
Bis(2-Chloroisopropyl)Ether		N	1790	µg/l	0.50	< 0.50
Hexachloroethane		N	1790	µg/l	0.50	< 0.50
N-Nitrosodi-n-propylamine		N	1790	µg/l	0.50	< 0.50
4-Methylphenol		N	1790	µg/l	0.50	< 0.50
Nitrobenzene		N	1790	µg/l	0.50	< 0.50
Isophorone		N	1790	µg/l	0.50	< 0.50
2-Nitrophenol		N	1790	µg/l	0.50	< 0.50
2,4-Dimethylphenol		N	1790	µg/l	0.50	< 0.50
Bis(2-Chloroethoxy)Methane		N	1790	µg/l	0.50	< 0.50
2,4-Dichlorophenol		N	1790	µg/l	0.50	< 0.50
1,2,4-Trichlorobenzene		N	1790	µg/l	0.50	< 0.50
Naphthalene		N	1790	µg/l	0.50	< 0.50
4-Chloroaniline		N	1790	µg/l	0.50	< 0.50
Hexachlorobutadiene		N	1790	µg/l	0.50	< 0.50
4-Chloro-3-Methylphenol		N	1790	µg/l	0.50	< 0.50
2-Methylnaphthalene		N	1790	µg/l	0.50	< 0.50
2,4,6-Trichlorophenol		N	1790	µg/l	0.50	< 0.50
2,4,5-Trichlorophenol		N	1790	µg/l	0.50	< 0.50
2-Chloronaphthalene		N	1790	µg/l	0.50	< 0.50
2-Nitroaniline		N	1790	µg/l	0.50	< 0.50
Acenaphthylene		N	1790	µg/l	0.50	< 0.50
Dimethylphthalate		N	1790	µg/l	0.50	< 0.50

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:		24-24686		
Quotation No.: Q24-35522		Chemtest Sample ID.:		1845051		
Order No.: POR019397		Client Sample Ref.:		12		
		Client Sample ID.:		SW30.0012		
		Sample Location:		SW3		
		Sample Type:		WATER		
		Sample Sub Type:				
		Top Depth (m):		0.00		
		Date Sampled:		31-Jul-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
2,6-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50
Acenaphthene		N	1790	µg/l	0.50	< 0.50
3-Nitroaniline		N	1790	µg/l	0.50	< 0.50
Dibenzofuran		N	1790	µg/l	0.50	< 0.50
4-Chlorophenylphenylether		N	1790	µg/l	0.50	< 0.50
2,4-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50
Fluorene		N	1790	µg/l	0.50	< 0.50
Diethyl Phthalate		N	1790	µg/l	0.50	< 0.50
4-Nitroaniline		N	1790	µg/l	0.50	< 0.50
2-Methyl-4,6-Dinitrophenol		N	1790	µg/l	0.50	< 0.50
Azobenzene		N	1790	µg/l	0.50	< 0.50
4-Bromophenylphenyl Ether		N	1790	µg/l	0.50	< 0.50
Hexachlorobenzene		N	1790	µg/l	0.50	< 0.50
Phenanthrene		N	1790	µg/l	0.50	< 0.50
Anthracene		N	1790	µg/l	0.50	< 0.50
Carbazole		N	1790	µg/l	0.50	< 0.50
Di-N-Butyl Phthalate		N	1790	µg/l	0.50	< 0.50
Fluoranthene		N	1790	µg/l	0.50	< 0.50
Pyrene		N	1790	µg/l	0.50	< 0.50
Butylbenzyl Phthalate		N	1790	µg/l	0.50	< 0.50
Benzo[a]anthracene		N	1790	µg/l	0.50	< 0.50
Chrysene		N	1790	µg/l	0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	1790	µg/l	0.50	< 0.50
Di-N-Octyl Phthalate		N	1790	µg/l	0.50	< 0.50
Benzo[b]fluoranthene		N	1790	µg/l	0.50	< 0.50
Benzo[k]fluoranthene		N	1790	µg/l	0.50	< 0.50
Benzo[a]pyrene		N	1790	µg/l	0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	1790	µg/l	0.50	< 0.50
Dibenz(a,h)Anthracene		N	1790	µg/l	0.50	< 0.50
Benzo[g,h,i]perylene		N	1790	µg/l	0.50	< 0.50
4-Nitrophenol		N	1790	µg/l	0.50	< 0.50
Naphthalene		U	1800	µg/l	0.10	< 0.10
Acenaphthylene		U	1800	µg/l	0.10	< 0.10
Acenaphthene		U	1800	µg/l	0.10	< 0.10
Fluorene		U	1800	µg/l	0.10	< 0.10
Phenanthrene		U	1800	µg/l	0.10	< 0.10
Anthracene		U	1800	µg/l	0.10	< 0.10

Results - Water

Project: STP3966D Rockingham Enterprise Area, Corby

Client: Soiltechnics Limited		Chemtest Job No.:		24-24686		
Quotation No.: Q24-35522		Chemtest Sample ID.:		1845051		
Order No.: POR019397		Client Sample Ref.:		12		
		Client Sample ID.:		SW30.0012		
		Sample Location:		SW3		
		Sample Type:		WATER		
		Sample Sub Type:				
		Top Depth (m):		0.00		
		Date Sampled:		31-Jul-2024		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Fluoranthene		U	1800	µg/l	0.10	< 0.10
Pyrene		U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene		U	1800	µg/l	0.10	< 0.10
Chrysene		U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene		U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene		U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene		U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene		U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene		U	1800	µg/l	0.10	< 0.10
Total Of 16 PAH's		U	1800	µg/l	2.0	< 2.0
PCB 28		N	1815	µg/l	0.010	< 0.010
PCB 52		N	1815	µg/l	0.010	< 0.010
PCB 101		N	1815	µg/l	0.010	< 0.010
PCB 118		N	1815	µg/l	0.010	< 0.010
PCB 153		N	1815	µg/l	0.010	< 0.010
PCB 138		N	1815	µg/l	0.010	< 0.010
PCB 180		N	1815	µg/l	0.010	< 0.010
Total PCBs (7 congeners)		N	1815	µg/l	0.010	< 0.010
Resorcinol		U	1920	mg/l	0.0050	< 0.0050
Phenol		U	1920	mg/l	0.0050	< 0.0050
Cresols		U	1920	mg/l	0.0050	< 0.0050
Xylenols		U	1920	mg/l	0.0050	< 0.0050
1-Naphthol		N	1920	mg/l	0.0050	< 0.0050
Trimethylphenols		U	1920	mg/l	0.0050	< 0.0050
Total Phenols		U	1920	mg/l	0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	RE PW TE TS PL DW GW
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	TE TS PL LE SW GW
1030	Total Suspended Solids	Total suspended solids	Filtration of a mixed sample through a standard glass fibre filter and determination of the mass of residue retained dried at 105°C.	SW
1090	Biochemical Oxygen Demand	Biochemical Oxygen demand (BOD)	Colorimetric determination of dissolved oxygen in seeded sample after 5 days incubation at 20°C.	
1100	Chemical Oxygen Demand	Chemical Oxygen demand (COD)	Dichromate oxidation of organic matter in sample followed by colorimetric determination of residual Cr[VI].	TE TS PL LE GW
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.	RE PW PL SW DW GW
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.	GW
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.	PL LE GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	PL GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44 Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection	
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.	PL GW
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection	
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection	PL GW
1815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Waters by GC-MS	ICES7 PCB congeners	Solvent extraction / GCMS detection	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	PL GW

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com