



OLIVE
Compliance

SITE CONDITION REPORT

Think 3e Consortium Limited

Think 3e House
15-21 Links Road Finedon
Road Industrial Estate
Wellingborough
Northamptonshire
NN8 4EY
EPR/BB3404KM/V002

SITE CONDITION REPORT –

Issue and Revision Record

Revision	Date	Originator	Description of Change
V1	26/06/2026	Olive Compliance Ltd	Issued for a Low Risk Surrender Application
V2			
V3			



BASIS OF REPORT

This report has been prepared by Olive Compliance Ltd with all reasonable skill, care and diligence, and taking account of the manpower and resources devoted to it by agreement with the client. Information reported herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of Think 3e Consortium Limited; no warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from Olive Compliance Ltd.

Olive Compliance Ltd disclaims any responsibility to the client and others in respect of any matters outside the agreed scope of the work.

Information reported herein may be based on the interpretation of public domain data collected by Olive Compliance Ltd, and/or information supplied by the Client and/or its other advisors and associates. The data has been accepted in good faith as being accurate and valid.

The copyright and intellectual property in all drawings, reports, specifications, bills of quantities, calculations and other information set out in this report remain vested in Olive Compliance Ltd unless the terms of appointment state otherwise.



Contents

1	INTRODUCTION	5
1.1	Objectives of the Site Condition Report	5
2	SOURCES OF INFORMATION	6
3	SITE INTRODUCTION	6
3.1	Site History	6
3.2	Site Description	6
3.3	Environmental Permit	7
3.4	Site Location and Setting	7
3.5	Site Receptors	8
4.	CONDITION OF THE LAND AT PERMIT ISSUE	9
5	POLLUTION HISTORY	18
6.	PERMITTED ACTIVITIES	20
7.	CHANGES TO THE ACTIVITY	20
8.	MEASURES TAKEN TO PROTECT LAND	21
9.	POLLUTION INCIDENTS THAT MAY HAVE HAD AN IMPACT ON LAND, AND THEIR REMEDATION	23
13.	STATEMENT OF SITE CONDITION	23



SITE CONDITION REPORT –

1 Introduction

Olive Compliance Ltd (OLIVE) has been instructed by Think 3E Consortium Ltd (T3E) to prepare a Site Conditioning Report to support their application for their Environmental Permit variation for their site located at Think 3e House, 15-21 Links Road Finedon Road, Industrial Estate, NN8 4EY.

1.1 Objectives of the Site Condition Report

This SCR is to provide a point of reference and baseline environmental data for the surrender of the permit. This is to demonstrate that there has been no deterioration in the condition of the land as a result of the Deposit for Recovery operations and ensure that the condition of the land is in a 'satisfactory state'.

The location of the site is illustrated in Drawing Site Location Plan.

The site layout; work area boundaries; monitoring and emission points are presented on Drawing Site Layout Plan.

Sections 1 to 3 of the EA's SCR template¹ (have been completed within this document and comprise the following aspects:

- Site details;
- Condition of the land at permit issue;
- Geology;
- Hydrology;
- Hydrogeology;
- Pollution history;
- Evidence of historic contamination; and
- Permitted activities.

Sections 4 to 7 of the SCR template have been maintained and completed over the lifetime of the Permit.

Sections 8 to 10 have completed and submitted in support of the application to surrender the permit.

A Site Condition Report was not prepared at permit issue.



SITE CONDITION REPORT –

2 Sources of Information

The below sources have been used in the preparation of this Site Condition Report.

- Multi Agency Geographical Information for the Countryside (MAGIC) map ([Magic Map Application](#))
- British Geological Survey Website [Welcome to BGS - British Geological Survey](#)
- EA. Flood map for planning ([Get flood risk information for planning in England - Flood map for planning - GOV.UK](#))
- Groundsure.io Report GS-SA4-E5X-KZG-NBT
- Site Condition Report Ref:Univar Solutions Ltd. Project number: 60623770

3 Site Introduction

3.1 Site History

The strata generally comprised made ground underlain by clay or gravel which was assumed to be the weathered part of the Northampton Sand Formation and the Whitby Mudstone Formation.

Made ground was encountered to the following depths; 1.3m bgl (WE201), 2.7m bgl (WE202) and 1.0m bgl (WE203), comprising brown gravelly clay or sandy gravel. Anthropogenic material included tarmac, coal, brick fragments, slag and fabric.

Natural ground in MW201 was described as stiff slightly gravelly grey CLAY. Gravel was described as mudstone. Natural ground in MW202 was described as GRAVEL & COBBLES, gravelly CLAY and clayey GRAVEL. Gravel and cobbles were described as mudstone and natural ground in MW201 and MW202 was considered to be weathered Whitby Mudstone Formation.

Natural ground in MW203 was described as gravelly sandy CLAY with gravel described as sandstone. This was considered to be weathered Northampton Sands Formation. This was underlain by stiff CLAY considered to be part of the Whitby Mudstone Formation. From 1.6-1.7m bgl a black layer of sand with a slight hydrocarbon odour was noted.

Groundwater was not encountered in any of the new monitoring wells during drilling works.

3.2 Site Description

Waste operations at the site are currently authorised by a Tier 3 environmental permit (A09 : Hazardous Waste Transfer Station).

The site is made up of the existing site containing large buildings 1-11. The additional site adjacent has been purchased and the site offers additional buildings and fully contained impermeable bunded yard. The additional yard adds buildings 12,13,14 and 15 in addition to zap shelter for the barrel wash area.

The facility operate a logistics transport facility and they service customers such as supermarket chains, the company bring materials back to the Think3E facility from stores for storage (in regards to shelving and display changes and café equipment).



SITE CONDITION REPORT –

They also bring back return loads of waste baled plastics and cardboard, out of date good (food and non-perishables), returns and broken stock.

Plastics are stockpiled to form bulk loads and are then sent out for further reprocessing.

Think 3E also have customers who supply food wastes that are depackaged and bulked up and sent out to an AD facility (this activity is done within 72 hrs for perishable items). This takes place in building 4.

The new additional site area to the West of the site was formally a Chemical Works and is fully contained with impermeable pavement and sealed drainage. Upon decommissioning the site was sampled to undertake a condition report. See Appendix.

3.3 Environmental Permit

The permit history is shown below taken from the permit issued December 2014.

Table 1 - Status log of permit

Date	Status / Revision
30/06/2010	EPR/GP3092LF _ Surrendered 02/02/2011
24/12/2014	EPR/BB3404KM – Full Permit Transferred to Think 3E

3.4 Site Location and Setting

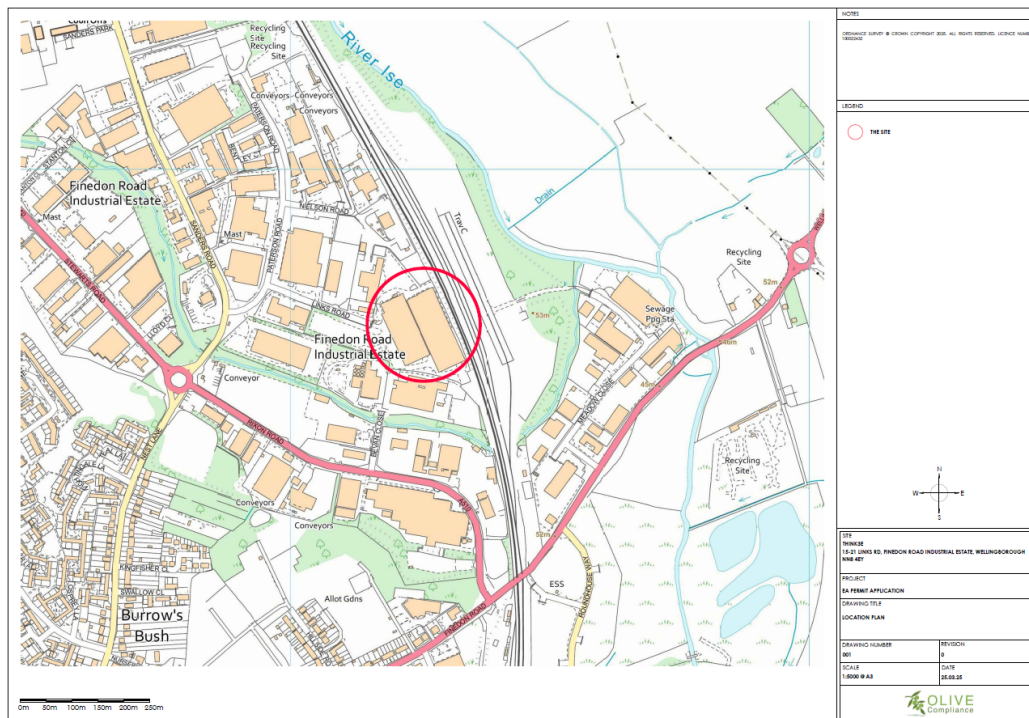
The site (centred at NGR SP 90221 69692) is located Think 3e House, 15-21 Links Road Finedon Road Industrial Estate, NN8 4EY. The site is principally bounded as detailed in Table 1 below.

Table 1: Site Setting

North	Commercial/Industrial
East	Railway Commercial/Industrial
South	Commercial/Industrial
West	Commercial/Industrial



SITE CONDITION REPORT –

Figure 1: Site Setting Area

3.5 Site Receptors

Consideration must be given to the sensitive receptors that may be affected from site operations in the event of an extreme weather event such as:

- schools, hospitals, nursing and care homes, residential areas, workplaces;
- protected habitats, watercourses, groundwater, boreholes, wells and springs supplying water for human consumption;
- roads, railways, bus stations, pylons (on or immediately adjacent to the site only), utilities, airport.

Table 2 below identifies the risk to sensitive receptors within the surrounding area within 1km.

Following a review of the below receptors, site activities would not impact on local sensitive receptors in the event of an extreme weather event or from the gradual change in climate conditions.

Table 2: Receptors

Receptor	Distance (m)	Contact Telephone Number
Cygnets Pre-School	Southwest 886m	01933 673882
Rail Link	East 115m	East Midland Railway- 0845 712 5678



Compass Church	South 85m	N/A
Central Park	Southeast 990m	N/A
Guillemot Park	Southwest 999m	N/A
A510 Road	South 300m	Highways Agency 0300 123 5000

The site is covered with a concrete surface and buildings. The new yard area (West side of the site) was formally a chemical works and has been built in line with CIRIA 736 Containment requirements with full bunded containment across the yard and buildings.

NOTES

ORDINANCE SURVEY: © CROWN COPYRIGHT 2023. ALL RIGHTS RESERVED
 USING: SAMPSON 1990
 DRAWING IS A SITE SCHEMATIC
 ANY ANOMALIES ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF
 OLIVE COMPLIANCE

LEGEND

PERMIT BOUNDARY

E ELECTRICITY / GENERATOR ISOLATION POINT

SM SCRAP METAL

SA SMOKING AREA

FA FIRE ASSEMBLY

WOOD 40 YARD SHIP

FIXED PLANT

CCTV

PERMANENTLY OPEN ENTRANCE

CLOSEABLE ROLLER SHUTTER DOORS

I INTERCEPTION

QUARANTINE AREA - 8M X 6.5M X 6

IMPERMEABLE SURFACE

COBHM

40 YARD SCRAP METAL SHIP

W WASH BAY

FUEL TANKS

PALLET SANDBAGS

SPILL KITS

Q SHIP

ACCESS ROUTES

ANDERSON SHELTER 40FT X 40FT

SURFACE WATER CATCHMENT

TANK PUMPSWITCH TO SEND TO BONDED STORAGE AREA

FOUL WATER DISCHARGE

TOWING WATER IN

YARD DRAIN

SITE

16.21 LINFO RD, FINEDON ROAD INDUSTRIAL ESTATE,
 WELLINGTON/DUNEDIN HINE AHI

PROJECT

EA PERMIT APPLICATION

DRAWING TITLE

SITE LAYOUT PLAN

DRAWING NUMBER

000

REVISION

7 - 28.08.25

SCALE

1:1600 @ A3

DATE

21.04.25

OLIVE
 Compliance

Geology

SITE CONDITION REPORT –

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock

Bedrock geology

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Superficial deposits

High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits. Medium - Intermediate between high and low vulnerability. Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

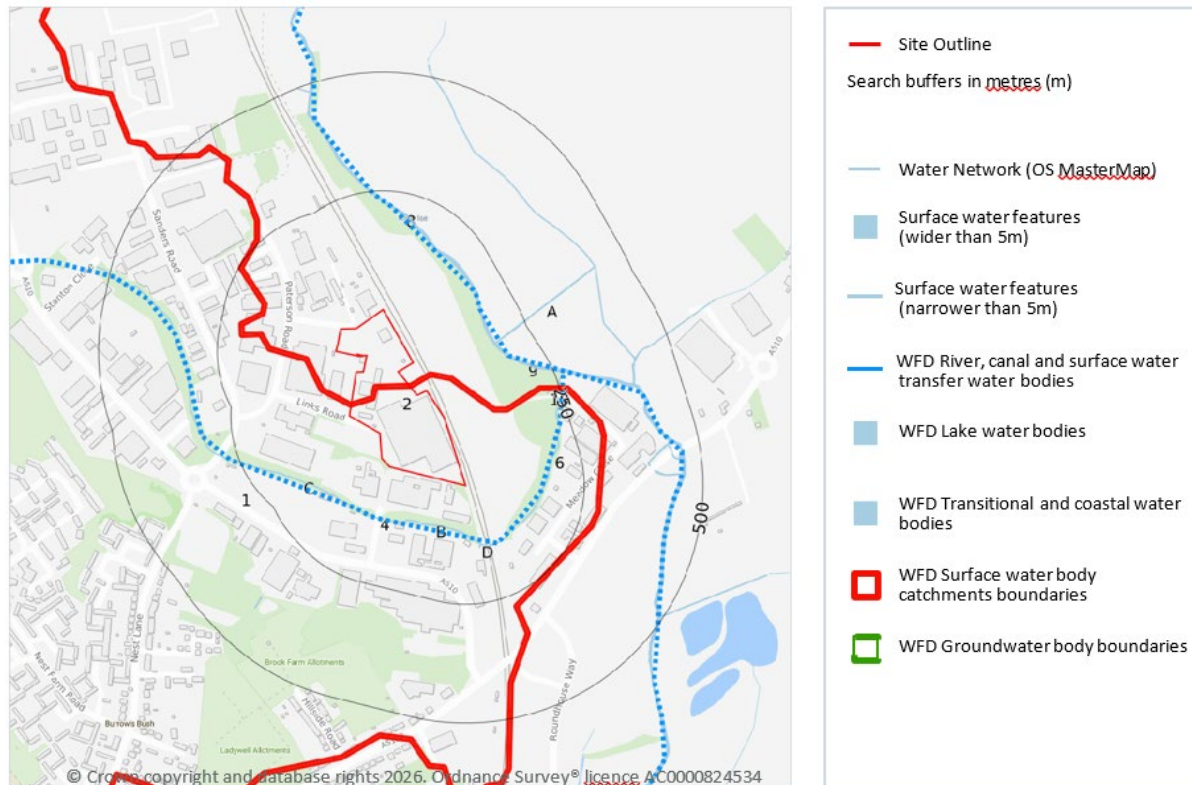
Hydrogeology

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows: High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits. Medium - Intermediate between high and low vulnerability. Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

There are 4 surface water features shown within the Groundsure Report, covering rivers, streams and lakes within 250m of the site are shown below.



SITE CONDITION REPORT –

**Surface Water Discharges**

Discharges of treated or untreated effluent to controlled waters are managed under the Water Resources Act 1991.

There are 15 recorded discharges within 500m of the site.

The site has an Anglian Water Consent to Discharge.

Source Protection Zone

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

The site is not in a source protection zone.

Air Quality

The site is not in an air quality management zone.

[AQMA's interactive map \(defra.gov.uk\)](https://defra.gov.uk)

Flood Risk

Checks carried out on the EA Flood Risk services provided the below information <https://check-long-term-flood-risk.service.gov.uk/>.



SITE CONDITION REPORT –

Sea levels may rise as high as 0.6m above today's levels. #

For information, the Environment Agency issue three levels of flood warning.

**Flood alert - Prepare**

- prepare a bag that includes medicines and insurance documents
- check flood warnings

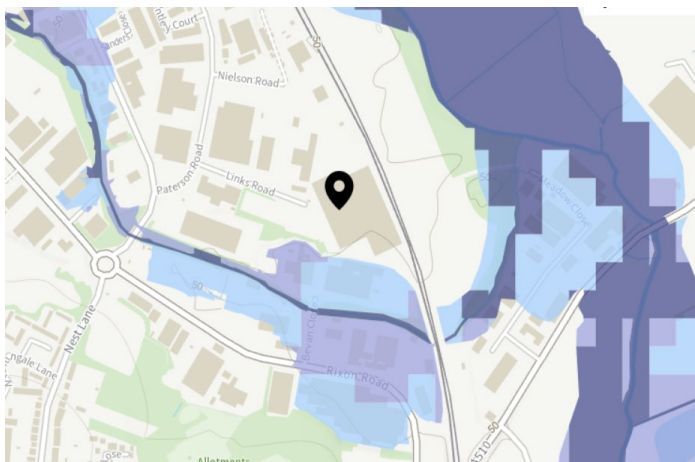
**Flood warning - Act**

- turn off gas, water and electricity
- move things upstairs or to safety
- move family, pets and car to safety

**Severe flood warning - Survive**

- call 999 if in immediate danger
- follow advice from emergency services
- keep yourself and your family safe

Checks conducted on the UK site identify the site as being located in an area of very low risk from flooding by surface water, rivers and the sea.

Risk of flooding from rivers and seas – NN8 4EY Very Low Risk**Rivers and the sea**

Extent



High risk

More than 3.3% chance each year



Medium risk

Between 1% and 3.3% chance each year



Low risk

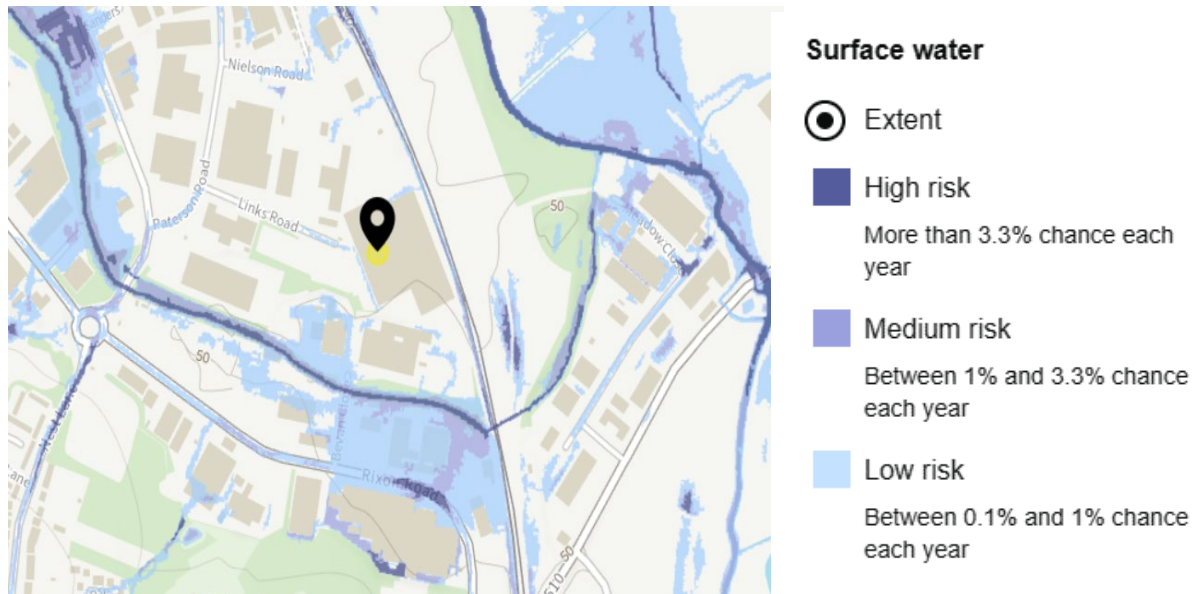
Between 0.1% and 1% chance each year



Very low risk

Less than 0.1% chance each year



Risk of flooding from surface waters – NN8 4EY Very Low Risk**Other flood risks**

Groundwater - Flooding from groundwater is unlikely in this area.

Reservoirs - Flooding from reservoirs is unlikely in this area.

North Northamptonshire Council publish their Flood Management strategy and documents on their website at:

North Northamptonshire Council [Report a flood](https://www.northnorthants.gov.uk/report-a-flood) | [North Northamptonshire Council](https://www.northnorthants.gov.uk)
([northnorthants.gov.uk](https://www.northnorthants.gov.uk))

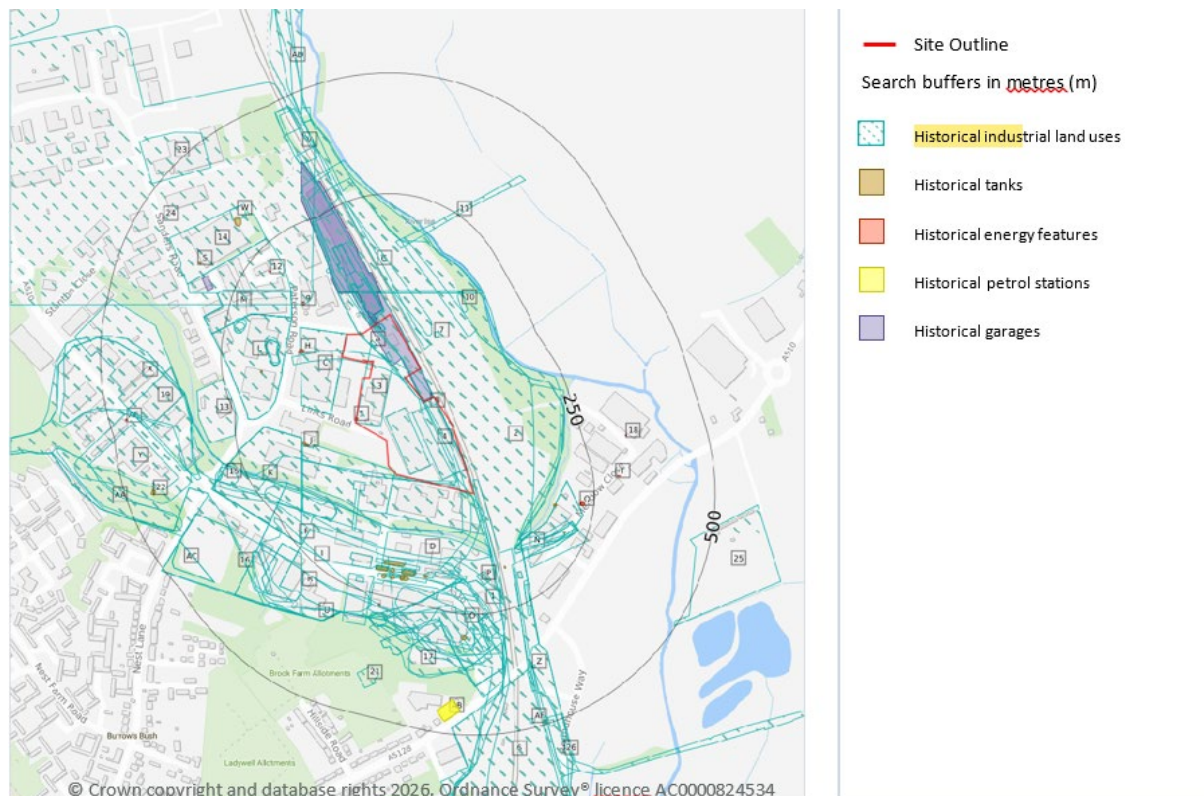
Previous Land Use

Potentially contaminative land use features digitised from historical Ordnance Survey® mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required.

The Groundsure report (See pg 15) identified the site as being used for industrial use previously.



SITE CONDITION REPORT –

**Site History and Investigation**

This application is to extend the permit area. Site Condition Report Ref:Univar Solutions Ltd. Project number: 60623770 covers the previous investigator of the site prior to transfer to Think 3 E.

Summary of this report is presented below. Reference has been made to previous investigations in 2011, however there is no information in relation to this report provided.

AECOM Infrastructure & Environment Limited ('AECOM') was commissioned by Univar Solutions UK Limited ('Univar') to undertake various environmental assessment works at the Wellingborough facility located on Links Rd, Finedon Road Industrial Estate, Wellingborough, NN8 4EY (the subject site). The assessment works included a well condition survey of existing boreholes, installation of new monitoring wells and site wide groundwater sampling and testing and assessment of the analytical results.

AECOM undertook an environmental due diligence site assessment¹ in 2020. Through this, AECOM identified that a site investigation and groundwater sampling event had been completed in 2011 by Ford Consulting². Due to the age of that data and as a leakage around the effluent treatment plant had also been identified, additional site wide sampling and investigation were recommended to provide an update on soil and groundwater conditions at the site.

The site at the time was partially owned and partially leased by Univar. The lease has less than 50 years remaining, and Univar is understood to have no right of surrender. Therefore, the lease will be passed to a new tenant Think 3 E.

Sampling and ground monitoring was undertaken with the results presented below for this additional area.

The strata generally comprised made ground underlain by clay or gravel which was assumed to be the weathered part of the Northampton Sand Formation and the Whitby Mudstone Formation.



SITE CONDITION REPORT –

Made ground was encountered to the following depths; 1.3m bgl (WE201), 2.7m bgl (WE202) and 1.0m bgl (WE203), comprising brown gravelly clay or sandy gravel. Anthropogenic material included tarmac, coal, brick fragments, slag and fabric.

Natural ground in MW201 was described as stiff slightly gravelly grey CLAY. Gravel was described as mudstone. Natural ground in MW202 was described as GRAVEL & COBBLES, gravelly CLAY and clayey GRAVEL. Gravel and cobbles were described as mudstone and natural ground in MW201 and MW202 was considered to be weathered Whitby Mudstone Formation.

Natural ground in MW203 was described as gravelly sandy CLAY with gravel described as sandstone. This was considered to be weathered Northampton Sands Formation. This was underlain by stiff CLAY considered to be part of the Whitby Mudstone Formation. From 1.6-1.7m bgl a black layer of sand with a slight hydrocarbon odour was noted.

Groundwater was not encountered in any of the new monitoring wells during drilling works.

Soil Logging, Testing, Sampling and Installation of Monitoring Wells

During the advancement of the boreholes, samples for environmental testing were taken and soil/rock arisings logged by an environmental engineer. The borehole logs are presented in Appendix B.

Testing for volatile vapours was undertaken on arisings during the site works using a photo-ionisation detector (PID) with readings taken every 0.5m for the first 3m followed by every 1m thereafter. All PID readings were <1ppm except for 8ppm which was recorded in WE201 at 0.5m sampled within made ground.

Soil samples were taken from made ground and from natural ground, with 6 no. samples scheduled for laboratory analysis.

Tests included metals, sulphate, PAHs, volatile organic compounds (VOCs), total petroleum hydrocarbons criteria working group (TPH CWG), phenol, glycols, ammoniacal nitrogen, chloride, fluoride, orthophosphate, cyanide, total organic carbon (TOC), acids and pH.

Asbestos identification tests were also undertaken on samples of made ground.

Upon completion of drilling, monitoring wells were installed to target depths, a washed gravel pack was installed in the designed response zone to allow movement of groundwater. All other backfill comprised bentonite clay pellets. All arisings were transferred to a dedicated skip on site for disposal. The headworks comprised flush road grade covers.

Well Development

To ensure consistency of approach to the site wide sampling and given the age and condition of the 2011 wells, all wells (both new and historical) were developed by removing groundwater with pipe and ball valve. This was to ensure no sediment was present within the response zone and to encourage representative groundwater conditions (post drilling works in the new wells). Purged water was collected in Intermediate Bulk containers (IBCs) prior to disposal from site. Well development was done 2 weeks prior to groundwater sampling.

Groundwater Gauging



SITE CONDITION REPORT –

Groundwater levels were recorded on 3 no. occasions. The first, during the well condition survey (28th February 2022) prior to installation of new wells, the second immediately following the final well installation (9th March 2022) and the third, on 23rd March 2022 during the groundwater sampling visit (post site wide well development).

Water levels varied from 49.5mOD to 56.11mOD or 2.55m to 1.09m below ground level (bgl). The inferred groundwater flow is north easterly, towards the railway track and River Isle.

Groundwater Sampling and Testing

Groundwater sampling was undertaken on the 23rd and 24th March 2022, two weeks after the wells were developed. All 14 no. wells on site were purged and sampled using low-flow methods (peristaltic pump using an Insitu Aqua Troll to measure the hydrochemical parameters as indicated below). A single duplicate sample (DUP1) was taken from MW201.

All samples were sent to Element Material Testing Laboratory in Deeside, an AECOM approved laboratory in pre-chilled cool boxes.

No odours or sheens were noted during sampling and no free phase product was detected.

Laboratory results and screening tables are presented in Appendix D. Low flow sampling reports are presented in Appendix E.

All samples (except for WE102 – due to insufficient sample) were scheduled for testing of metals, pH, sulphide, sulphate, TPH CWG, benzene, toluene, ethylbenzene and xylene (BTEX), PAHs, chloride, fluoride, orthophosphate, glycols & surfactants, acetic acid, VOCs and semi-volatile organic compounds (SVOCs).

The recharge of 5 no. wells (WE101, WE102, WE103, WE104 and WE109) was insufficient for a full and proper low-flow test to be completed. As a result, the test was stopped early, and a 'grab' sample was taken at these wells.

Due to the low volume of groundwater present in WE102 only a limited sample could be taken. As a result, only TPH CWG and PAH were scheduled for testing from WE102.

From the final Insitu Aqua Troll readings, parameters varied as follows:

- Redox potential varied 59 - 266mV.
- Dissolved oxygen varied 0.05 – 7.6mg/l
- Specific conductivity varied 1134 – 4766 μ S/cm
- pH varied 3.73 – 7.16

A pH of 3.73 was obtained from groundwater in WE105 which was screened in both the sandstone and mudstone. The highest pH was 6.63 (WE108) which was screened in both the sandstone and mudstone.

Summary of Previous Site condition

AECOM was commissioned by Univar to undertake a well condition survey and install 3 new monitoring wells at the Univar Wellingborough facility located on Links Rd, Finedon Road Industrial Estate, Wellingborough, NN8 4EY. The works were undertaken to better assess the soil and groundwater conditions at the site following a previous investigation completed in 2011.



SITE CONDITION REPORT –

The well condition survey concluded that all 11 historical wells were useable following some minor repair works. An additional 3 wells were installed to assess data gaps around the north-eastern and eastern boundary and in the area of the effluent treatment plant.

Soil samples collected from the 3 new boreholes were analysed for tests including metals, sulphate, PAHs, volatile organic compounds (VOCs), total petroleum hydrocarbons criteria working group (TPH CWG), phenol, glycols, ammoniacal nitrogen, chloride, fluoride, orthophosphate, cyanide, total organic carbon (TOC), acids and pH.

All the wells on site (i.e. the historical and newly installed monitoring wells) were developed 2 weeks prior to undertaking site wide groundwater sampling and testing. Samples were sent for laboratory analysis for a range of inorganic and organic determinands. For the historical wells, the newly collected data were also compared with the data provided in the 2011 investigation report. This comparison indicates that concentrations of nickel, cadmium and zinc have increased whilst arsenic has remained similar in concentration.

Site wide sulphate concentrations have generally increased since 2011, however, none are higher than the highest concentration of 839 mg/l reported by Ford in 2011. Elevated sulphate has been obtained from groundwater across the site, including up-gradient wells. Hydrogeological modelling undertaken by Ford in 2011 determined that sulphate was not considered to pose a significant potential risk to the River Isle.

The 2011 investigation report did not record any PAHs in groundwater above the detection limit. PAHs were detected in 2022 in WE101, WE103 and WE109, however, it should be noted that the reported detection limit in 2011 was much higher (10 µg/l) than the 2022 detection limits (<0.005 µg/l). Noting this, the majority of detections for PAH were localised to one location (WE101).

VOC's were detected in samples from five locations (WE101, WE102, WE104, WE105 and WE108) out of the 14 wells in total. .

Detections for ammoniacal nitrogen in groundwater have been obtained from all wells located with the exception of WE101, WE103 and WE107.

Complaints or Incidents

There are no records of external incidents or complaints during the permit lifetime.



SITE CONDITION REPORT –

5 Pollution History

Three ground investigations have previously been undertaken at the site detailed below?

Groundsure report has records of 17 substantiated pollution incidents within 500m of the site. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

ID	Location	Details	Impact
3	33m N	Incident Date: 05/10/2001 Incident Identification: 34822 Pollutant: Oils and Fuel Pollutant Description: Lubricating Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
C	60m SW	Incident Date: 14/11/2005 Incident Identification: 360127 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	98m S	Incident Date: 16/01/2002 Incident Identification: 52857 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	116m N	Incident Date: 15/10/2001 Incident Identification: 36862 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	147m W	Incident Date: 03/06/2013 Incident Identification: 1118394 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
8	156m NW	Incident Date: 25/09/2013 Incident Identification: 1162027 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
F	160m SW	Incident Date: 30/03/2004 Incident Identification: 226444 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
E	165m N	Incident Date: 05/07/2019 Incident Identification: 1715962 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



SITE CONDITION REPORT –

12	208m NW	Incident Date: 24/02/2025 Incident Identification: 2361018 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
15	258m NW	Incident Date: 02/03/2022 Incident Identification: 2036345 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
N	261m SW	Incident Date: 23/11/2001 Incident Identification: 45550 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	323m W	Incident Date: 11/03/2002 Incident Identification: 63194 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
22	355m W	Incident Date: 02/05/2003 Incident Identification: 155571 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	397m E	Incident Date: 08/11/2001 Incident Identification: 41808 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
25	429m S	Incident Date: 31/10/2001 Incident Identification: 40388 Pollutant: Contaminated Water Pollutant Description: Vehicle and Plant Washings	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
26	438m S	Incident Date: 15/02/2015 Incident Identification: 1313965 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
28	486m NW	Incident Date: 02/07/2001 Incident Identification: 12981 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency.



SITE CONDITION REPORT –

6. Permitted activities

R13: Storage of waste pending any of the operations numbered

R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)

R3: Recycling/reclamation of organic substances which are not used as solvents

R4: Recycling/reclamation of metals and metal compounds

R5: Recycling/reclamation of other inorganic compounds

D14: Repackaging prior to submission to any of the operations numbered D01 to D13

D15: Storage pending any of the operations numbered D01 to D14 (excluding temporary storage)

7. Changes to the activity

There have been no changes to the activity boundary post the issue of the Permit in 2010.

‘Dangerous substances’ not identified in the Application Site Condition Report have been used or produced as a result of the permitted activities. However they were identified from the new site as detailed in the AECOM decommissioning report see Appendix.

This application is to extend the permit area. Site Condition Report Ref:Univar Solutions Ltd. Project number: 60623770 covers the previous investigation of the site prior to transfer to Think 3 E.

Summary of this report is below.

AECOM Infrastructure & Environment Limited (‘AECOM’) was commissioned by Univar Solutions UK Limited (‘Univar’) to undertake various environmental assessment works at the Wellingborough facility located on Links Rd, Finedon Road Industrial Estate, Wellingborough, NN8 4EY (the subject site). The assessment works included a well condition survey of existing boreholes, installation of new monitoring wells and site wide groundwater sampling and testing and assessment of the analytical results.

AECOM undertook an environmental due diligence site assessment¹ in 2020. Through this, AECOM identified that a site investigation and groundwater sampling event had been completed in 2011 by



SITE CONDITION REPORT –

Ford Consulting². Due to the age of that data and as a leakage around the effluent treatment plant had also been identified, additional site wide sampling and investigation were recommended to provide an update on soil and groundwater conditions at the site.

The site at the time was partially owned and partially leased by Univar. The lease has less than 50 years remaining, and Univar is understood to have no right of surrender. Therefore, the lease will be passed to a new tenant Think 3 E.

Sampling and ground monitoring was undertaken with the results presented below for this additional area.

8. Measures taken to protect land

The site activities mainly take place within buildings with external storage minimal. The facility is fully surfaced in concrete and tarmac which provides impermeable surface and sealed drainage to a consented discharge.

The site has a Fire Prevention Plan on place that considers the containment of firewater

Photographs of Pollution Prevention Measures

Site surfacing of concrete and tarmac on new yard



Bund retaining wall and sealed surface on new yard



SITE CONDITON REPORT –



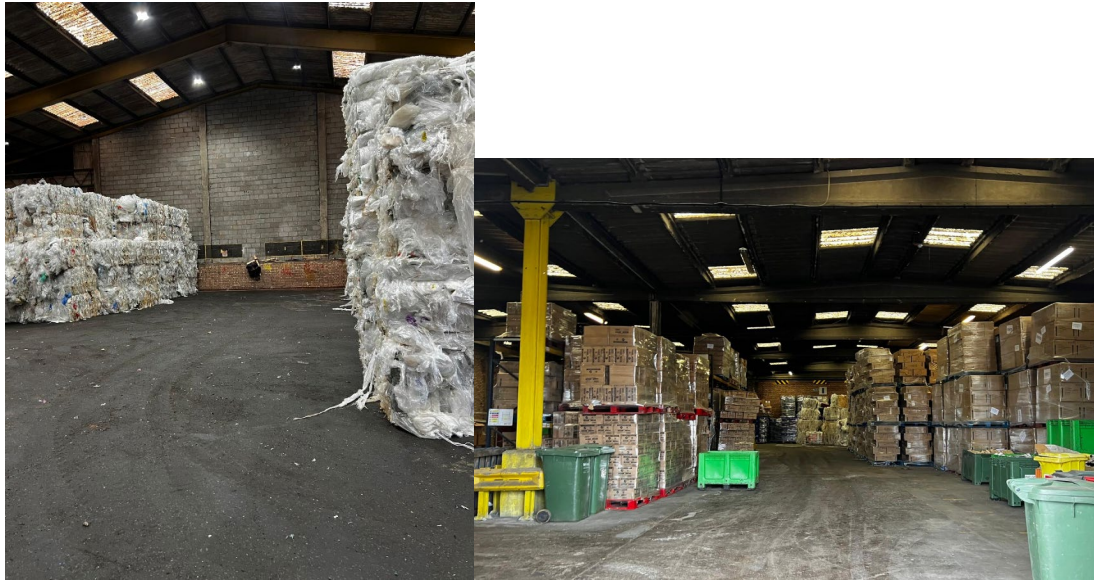
Site surfacing infront of buildings 1-4



Waste plastics stored within buildings with fire breaks between stockpiles



SITE CONDITION REPORT –



9. Pollution incidents that may have had an impact on land, and their remediation

There have been no pollution incidents in relation to the original site operations recorded. The AECOM details the site condition of the new site area below the site surfacing.

13. Statement of site condition

At the time of the original permit issue for the facility the site did not have a site conditioning report issued. The site conditioning report has been completed based on the information available and site inspection.



APPENDIX A – Groundsure Report (Report ID: GS-SA4-E5X-KZG-NBT)



THINK 3E CONSORTIUM LTD, 15-21, LINKS ROAD, WELLINGBOROUGH, NORTH NORTHAMPTONSHIRE, NN8 4EY

Order Details

Date: 24/03/2026
Your ref: Think3E
Our Ref: GS-SA4-E5X-KZG-NBT

Site Details

Location: 490213 269753
Area: 4.55 ha
Authority: [North Northamptonshire Council \(Wellingborough Area\)](#) ↗

Site plan



Quick Links

[Summary of findings](#) [p. 2 >](#)
[OS MasterMap site plan](#) [p.14 >](#)
[Aerial image](#) [p. 9 >](#)

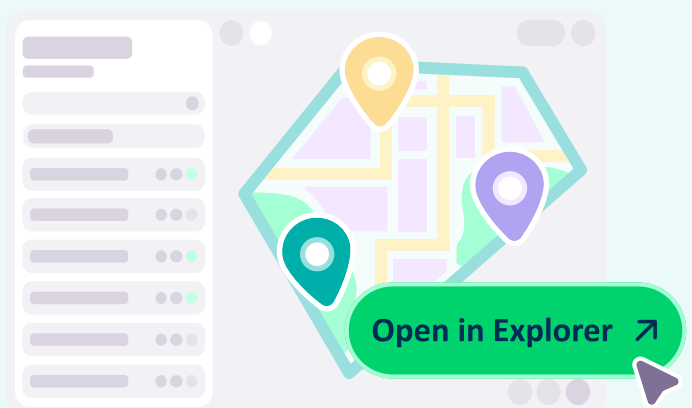
[Insight User Guide](#) ↗

Open this site in Explorer!

Access the data now in our interactive workspace.

- Map and interpret 130+ datasets across 170 years
- Generate insights and visuals quickly
- Revisit and collaborate with your team

Access to Groundsure Explorer requires an Insights account.
12 months access begins at purchase.



Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	19	6	67	40	-
20 >	1.2 >	Historical tanks >	0	0	17	5	-
21 >	1.3 >	Historical energy features >	1	0	7	7	-
22 >	1.4 >	Historical petrol stations >	0	0	0	3	-
23 >	1.5 >	Historical garages >	2	2	0	1	-
23	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
24 >	2.1 >	Historical industrial land uses >	26	8	98	56	-
31 >	2.2 >	Historical tanks >	0	0	29	9	-
33 >	2.3 >	Historical energy features >	1	0	12	8	-
34 >	2.4 >	Historical petrol stations >	0	0	0	4	-
34 >	2.5 >	Historical garages >	3	3	1	1	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
36	3.1	Active or recent landfill	0	0	0	0	-
36	3.2	Historical landfill (BGS records)	0	0	0	0	-
37	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
37	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
37 >	3.5 >	Historical waste sites >	1	0	3	3	-
38 >	3.6 >	Licensed waste sites >	3	3	12	20	-
49 >	3.7 >	Waste exemptions >	6	5	38	14	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
55 >	4.1 >	Recent industrial land uses >	3	4	36	-	-
58 >	4.2 >	National Geographic Database (NGD) - Current or recent tanks >	5	2	5	-	-
59 >	4.3 >	Current or recent petrol stations >	0	0	0	1	-
59	4.4	Electricity cables	0	0	0	0	-
59	4.5	Gas pipelines	0	0	0	0	-



59	4.6	Sites determined as Contaminated Land	0	0	0	0	-
60 >	4.7 >	Control of Major Accident Hazards (COMAH) >	1	0	0	0	-
60	4.8	Regulated explosive sites	0	0	0	0	-
60 >	4.9 >	Hazardous substance storage/usage >	1	0	0	0	-
61 >	4.10 >	Historical licensed industrial activities (IPC) >	4	3	13	1	-
64 >	4.11 >	Licensed industrial activities (Part A(1)) >	0	0	53	0	-
73 >	4.12 >	Licensed pollutant release (Part A(2)/B) >	1	0	5	11	-
76	4.13	Radioactive Substance Authorisations	0	0	0	0	-
76 >	4.14 >	Licensed Discharges to controlled waters >	1	0	8	6	-
78	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
78 >	4.16 >	Pollutant release to public sewer >	0	0	1	0	-
79 >	4.17 >	List 1 Dangerous Substances >	0	0	2	0	-
79 >	4.18 >	List 2 Dangerous Substances >	0	1	3	4	-
80 >	4.19 >	Pollution Incidents (EA/NRW) >	0	1	8	8	-
82 >	4.20 >	Pollution inventory substances >	0	0	1	0	-
82 >	4.21 >	Pollution inventory waste transfers >	0	0	1	0	-
84	4.22	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
85 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
87 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
89 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
90	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
90	5.5	Groundwater vulnerability- local information	None (within 0m)				
91	5.6	Groundwater abstractions	0	0	0	0	0
92 >	5.7 >	Surface water abstractions >	0	0	0	0	2
92	5.8	Potable abstractions	0	0	0	0	0
93	5.9	Source Protection Zones	0	0	0	0	-
93	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m

94 >	6.1 >	Water Network (OS MasterMap) >	0	0	10	-	-
95 >	6.2 >	Surface water features >	0	0	4	-	-
96 >	6.3 >	WFD Surface water body catchments >	2	-	-	-	-
96 >	6.4 >	WFD Surface water bodies >	0	0	2	-	-
97 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
98 >	7.1 >	Risk of flooding from rivers and the sea >	Medium (within 50m)				
99 >	7.2 >	Historical Flood Events >	0	0	3	-	-
99	7.3	Flood Defences	0	0	0	-	-
100	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
100	7.5	Flood Storage Areas	0	0	0	-	-
101 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
102 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
103 >	8.1 >	Surface water flooding >	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding >					
105 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
106	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
107	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
107	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
107	10.4	Special Protection Areas (SPA)	0	0	0	0	0
107	10.5	National Nature Reserves (NNR)	0	0	0	0	0
108 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
108	10.7	Designated Ancient Woodland	0	0	0	0	0
108	10.8	Biosphere Reserves	0	0	0	0	0
108	10.9	Forest Parks	0	0	0	0	0
109	10.10	Marine Conservation Zones	0	0	0	0	0
109	10.11	Green Belt	0	0	0	0	0

109	10.12	Proposed Ramsar sites	0	0	0	0	0
109	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
109	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
110	10.15	Nitrate Sensitive Areas	0	0	0	0	0
110 >	10.16 >	Nitrate Vulnerable Zones >	3	0	0	0	0
111 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
112	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
113	11.1	World Heritage Sites	0	0	0	-	-
113	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
113	11.3	National Parks	0	0	0	-	-
113	11.4	Listed Buildings	0	0	0	-	-
114	11.5	Conservation Areas	0	0	0	-	-
114	11.6	Scheduled Ancient Monuments	0	0	0	-	-
114	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
115 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
116	12.2	Open Access Land	0	0	0	-	-
116	12.3	Tree Felling Licences	0	0	0	-	-
116	12.4	Environmental Stewardship Schemes	0	0	0	-	-
117	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
118 >	13.1 >	Priority Habitat Inventory >	0	0	6	-	-
119	13.2	Habitat Networks	0	0	0	-	-
119	13.3	Open Mosaic Habitat	0	0	0	-	-
119	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
120 >	14.1 >	10k Availability >	Identified (within 500m)				
122 >	14.2 >	Artificial and made ground (10k) >	2	3	4	9	-

124 >	14.3 >	Superficial geology (10k) >	0	0	3	7	-
125	14.4	Landslip (10k)	0	0	0	0	-
126 >	14.5 >	Bedrock geology (10k) >	2	1	3	2	-
127	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
128 >	15.1 >	50k Availability >	Identified (within 500m)				
129 >	15.2 >	Artificial and made ground (50k) >	1	1	0	4	-
130 >	15.3 >	Artificial ground permeability (50k) >	1	2	-	-	-
131 >	15.4 >	Superficial geology (50k) >	0	0	2	3	-
132	15.5	Superficial permeability (50k)	None (within 50m)				
132	15.6	Landslip (50k)	0	0	0	0	-
132	15.7	Landslip permeability (50k)	None (within 50m)				
133 >	15.8 >	Bedrock geology (50k) >	2	0	0	1	-
134 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
134	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
135 >	16.1 >	BGS Boreholes >	0	0	18	-	-
Page	Section	Natural ground subsidence >					
137 >	17.1 >	Shrink swell clays >	Low (within 50m)				
139 >	17.2 >	Running sands >	Very low (within 50m)				
141 >	17.3 >	Compressible deposits >	Very low (within 50m)				
143 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
144 >	17.5 >	Landslides >	Very low (within 50m)				
146 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
148 >	18.1 >	BritPits >	0	0	1	2	-
149 >	18.2 >	Surface ground workings >	0	1	20	-	-
150	18.3	Underground workings	0	0	0	0	0
150	18.4	Underground mining extents	0	0	0	0	-



151 >	18.5 >	Historical Mineral Planning Areas >	0	0	2	1	-
151	18.6	Non-coal mining	0	0	0	0	0
151	18.7	JPB mining areas	None (within 0m)				
152	18.8	The Coal Authority non-coal mining	0	0	0	0	-
152 >	18.9 >	Researched mining >	0	0	0	1	-
152	18.10	Mining record office plans	0	0	0	0	-
152	18.11	BGS mine plans	0	0	0	0	-
153	18.12	Coal mining	None (within 0m)				
153	18.13	Brine areas	None (within 0m)				
153	18.14	Gypsum areas	None (within 0m)				
153	18.15	Tin mining	None (within 0m)				
153	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
154	19.1	Natural cavities	0	0	0	0	-
154	19.2	Mining cavities	0	0	0	0	0
154	19.3	Reported recent incidents	0	0	0	0	-
154	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
156 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
158 >	21.1 >	BGS Estimated Background Soil Chemistry >	4	1	-	-	-
158	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
159	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
160	22.1	Underground railways (London)	0	0	0	-	-
160	22.2	Underground railways (Non-London)	0	0	0	-	-
161	22.3	Railway tunnels	0	0	0	-	-
161 >	22.4 >	Historical railway and tunnel features >	14	15	25	-	-
163	22.5	Royal Mail tunnels	0	0	0	-	-

163	22.6	Historical railways	0	0	0	-	-
<u>163</u> >	<u>22.7</u> >	<u>Railways</u> >	2	12	6	-	-
164	22.8	Crossrail 2	0	0	0	0	-
165	22.9	HS2	0	0	0	0	-

Recent aerial photograph

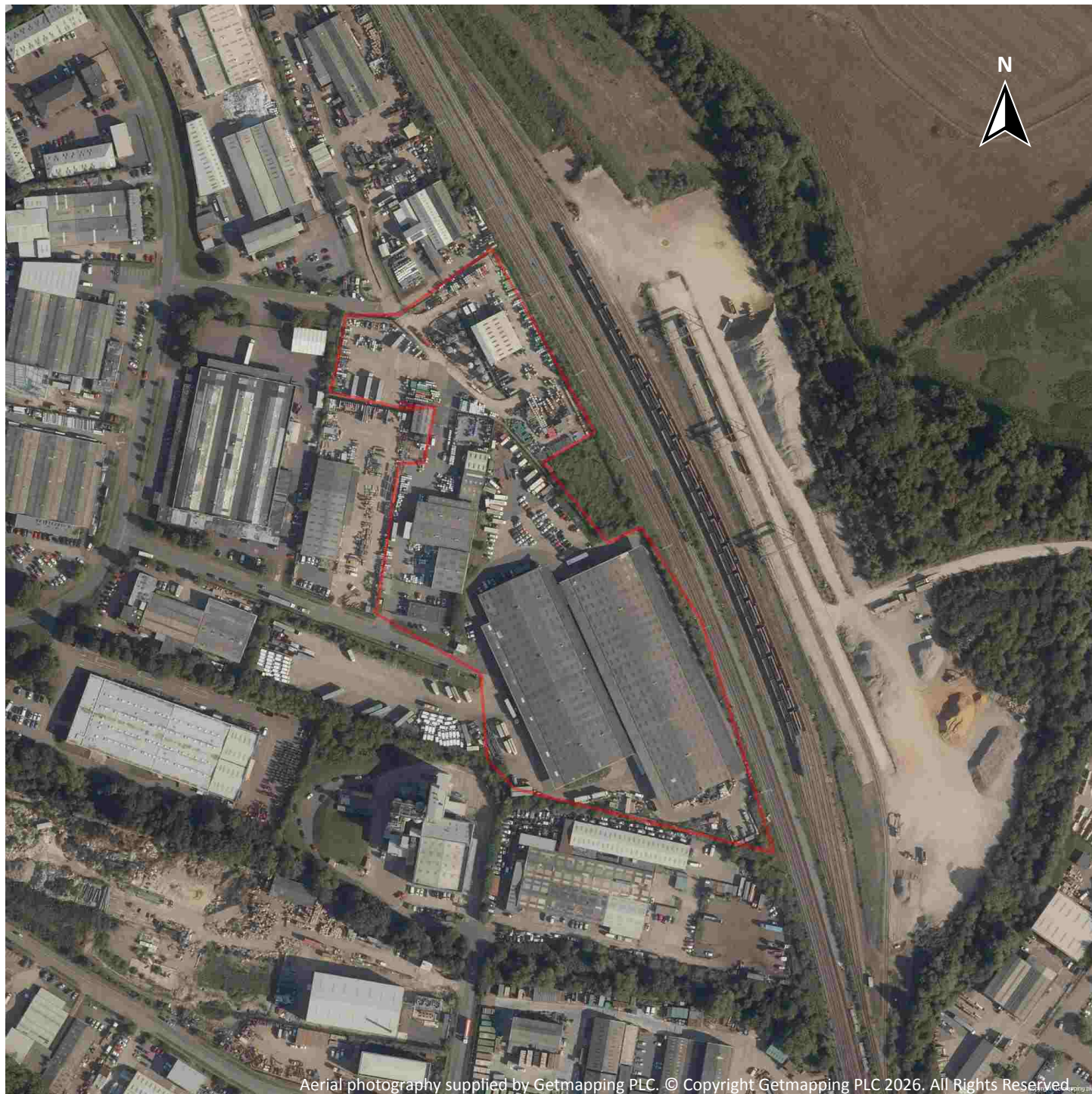


Capture Date: 04/04/2021

Site Area: 4.55ha



Recent site history - 2018 aerial photograph



Capture Date: 06/09/2018

Site Area: 4.55ha



Recent site history - 2014 aerial photograph



Capture Date: 16/04/2014

Site Area: 4.55ha



Recent site history - 2010 aerial photograph



Capture Date: 03/06/2010

Site Area: 4.55ha



Recent site history - 1999 aerial photograph



Capture Date: 23/07/1999

Site Area: 4.55ha



OS MasterMap site plan



Site Area: 4.55ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

1.1 Historical industrial land uses

Records within 500m

132

Potentially contaminative land use features digitised from historical Ordnance Survey® mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15](#) >

ID	Location	Land use	Dates present	Group ID
1	On site	Railway Sidings	1899	1832171



ID	Location	Land use	Dates present	Group ID
2	On site	Railway Sidings	1980 - 1988	1837879
3	On site	Unspecified Depot	1980 - 1988	1844329
4	On site	Unspecified Warehouses	1980 - 1988	1875366
A	On site	Railway Building	1980	1803614
A	On site	Railway Building	1957 - 1980	1823965
A	On site	Railway Building	1957 - 1980	1834076
A	On site	Railway Buildings	1957	1851928
A	On site	Railway Buildings	1950	1857291
B	On site	Tramway Sidings	1899	1805841
B	On site	Unspecified Warehouses	1980 - 1988	1872902
C	On site	Unspecified Works	1980	1815879
C	On site	Unspecified Works	1988	1862065
D	On site	Railway Sidings	1957 - 1958	1823285
D	On site	Railway Sidings	1950	1851574
D	On site	Unspecified Works	1980 - 1988	1868316
E	On site	Mineral Railway Sidings	1938	1849908
E	On site	Unspecified Factory	1980 - 1988	1861593
F	On site	Iron Works	1950	1872746
6	6m E	Railway Sidings	1884	1834167
A	13m NW	Railway Building	1938	1823749
G	27m NE	Railway Sidings	1884	1829823
G	35m NE	Unspecified Pit	1899	1777772
G	48m N	Railway Sidings	1974 - 1994	1825133
G	49m N	Railway Sidings	1950	1830458
7	58m NE	Railway Building	1950 - 1957	1842322
D	59m SW	Railway Building	1957	1803613
A	59m NW	Railway Buildings	1974 - 1994	1853955
A	62m NW	Railway Building	1950	1860588



ID	Location	Land use	Dates present	Group ID
I	84m S	Iron Works	1938	1841892
I	102m S	Unspecified Depot	1980 - 1988	1833881
8	104m NW	Industrial Estate	1990	1870820
F	110m SW	Unspecified Works	1980 - 1989	1839938
A	115m NW	Railway Building	1950	1803617
K	116m W	Unspecified Works	1977	1848207
K	116m W	Unspecified Works	1992	1858921
L	117m W	Unspecified Works	1982 - 1992	1819715
L	117m W	Unspecified Works	1977	1847717
M	119m W	Unspecified Works	1992	1818721
M	119m W	Unspecified Works	1982 - 1989	1827886
M	119m W	Unspecified Works	1975 - 1977	1846420
L	128m W	Unspecified Pit	1938	1835220
L	129m W	Unspecified Pit	1958	1866783
L	129m W	Unspecified Pit	1950	1873432
A	133m N	Chimney	1974 - 1994	1853541
10	136m NE	Unspecified Heap	1938	1798499
N	137m SE	Tramway Sidings	1938	1871307
F	138m SW	Refuse Heap	1957	1783083
F	138m SW	Refuse Heaps	1950	1876903
11	139m N	Tram Sidings	1938	1801097
N	139m SE	Unspecified Depot	1980	1790069
N	139m SE	Industrial Estate	1988	1796283
N	141m SE	Tramway Sidings	1899	1824268
N	145m SE	Tramway Sidings	1950	1827461
I	152m S	Iron Works	1899	1848156
I	156m S	Railway Building	1884	1803609
N	157m SE	Unspecified Works	1980	1795020



ID	Location	Land use	Dates present	Group ID
O	162m S	Brick Field	1884	1781236
P	163m S	Railway Buildings	1957	1783979
I	165m S	Unspecified Kiln	1884	1799832
I	172m S	Unspecified Tanks	1899	1788932
I	172m S	Railway Building	1957	1803606
I	174m S	Railway Buildings	1957	1783980
N	176m SE	Railway Building	1950	1803611
I	177m S	Unspecified Kiln	1884	1799831
I	178m S	Railway Building	1957	1803615
I	179m S	Railway Building	1957	1803607
O	179m S	Brick Works	1899	1850370
O	180m S	Brick Works	1938	1832936
K	181m SW	Refuse Heaps	1958	1827856
I	184m S	Unspecified Tanks	1899	1811332
I	184m S	Unspecified Tanks	1938	1855574
I	185m S	Unspecified Tanks	1957	1834763
I	186m S	Unspecified Tanks	1950	1866019
P	186m SE	Railway Building	1980 - 1988	1832652
I	188m S	Railway Building	1957	1803612
K	189m SW	Unspecified Works	1938	1814837
I	190m S	Unspecified Tanks	1938	1848192
I	191m S	Unspecified Tanks	1950	1866144
I	200m S	Unspecified Tanks	1899	1788931
M	208m W	Unspecified Pit	1958	1834686
O	209m S	Unspecified Factory	1980 - 1988	1827753
P	210m SE	Railway Building	1980 - 1988	1858470
M	210m W	Unspecified Pit	1950	1815425
P	216m SE	Railway Buildings	1957	1784065



ID	Location	Land use	Dates present	Group ID
I	218m S	Unspecified Factory	1980 - 1988	1825660
O	221m S	Unspecified Ground Workings	1884	1785561
I	225m S	Railway Building	1957	1803616
R	232m SW	Refuse Heap	1938	1878728
O	236m S	Unspecified Pit	1938	1816451
13	244m W	Unspecified Works	1982 - 1992	1859630
O	245m S	Unspecified Pit	1899	1832735
R	256m SW	Unspecified Works	1982 - 1992	1822871
R	256m SW	Unspecified Works	1977	1872882
14	259m NW	Unspecified Warehouse	1975	1800798
15	268m SW	Refuse Heap	1950	1854048
16	273m SW	Unspecified Works	1958	1872744
O	274m S	Railway Buildings	1957	1783978
O	276m S	Unspecified Pit	1980 - 1988	1877450
I	286m S	Unspecified Heap	1950	1839218
I	287m S	Unspecified Ground Workings	1938	1785560
O	291m S	Railway Building	1957	1803605
U	306m S	Refuse Heap	1950	1823548
17	309m S	Unspecified Pit	1980 - 1988	1864137
U	309m SW	Refuse Heap	1957	1838009
V	315m NW	Cuttings	1884	1826334
W	319m NW	Cuttings	1975	1781642
X	322m W	Industrial Estate	1992	1815432
R	323m SW	Refuse Heap	1958	1854356
R	325m SW	Refuse Heap	1950	1808197
X	333m W	Refuse Heaps	1958	1822731
X	334m W	Refuse Heaps	1950	1843305
19	339m W	Unspecified Warehouse	1982 - 1989	1852655



ID	Location	Land use	Dates present	Group ID
V	358m NW	Cuttings	1950	1843799
Y	358m W	Unspecified Works	1982 - 1989	1876857
20	375m S	Locomotive Department	1950	1858382
Z	376m S	Railway Building	1957	1804080
Z	377m S	Railway Building	1957	1804079
Y	383m W	Unspecified Commercial/Industrial	1992	1790638
21	397m S	Timber Yard	1980 - 1988	1842349
AA	413m SW	Refuse Heap	1958	1827244
AA	419m SW	Refuse Heap	1950	1810518
V	429m NW	Cuttings	1971	1842407
AC	434m SW	Unspecified Pit	1982 - 1992	1847748
AC	434m SW	Unspecified Pit	1977	1851709
AD	435m N	Mineral Railway Sidings	1950	1843234
23	445m NW	Unspecified Works	1975	1794692
AD	452m NW	Mineral Railway Sidings	1971	1845457
25	459m E	Unspecified Works	1980 - 1988	1834673
AF	481m S	Railway Building	1884	1803610
AF	485m S	Railway Buildings	1957	1784064
26	488m S	Tramway Sidings	1884	1816149

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m

22

Tank features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)



ID	Location	Land use	Dates present	Group ID
J	107m SW	Unspecified Tank	1977	297557
J	112m W	Unspecified Tank	1977	297556
P	163m SE	Unspecified Tank	1925	297553
N	167m E	Unspecified Tank	1985 - 1990	307312
L	167m W	Unspecified Tank	1972 - 1990	313361
N	170m E	Unspecified Tank	1974	312758
N	170m E	Unspecified Tank	1993	304480
I	176m S	Tanks	1899 - 1925	306685
I	188m S	Unspecified Tank	1899	297545
I	188m S	Tanks	1899 - 1925	304319
I	191m S	Unspecified Tank	1899 - 1925	314693
I	193m S	Tanks	1925	293815
I	201m S	Tanks	1925	293813
I	201m S	Unspecified Tank	1899	297544
N	203m SE	Unspecified Tank	1925	297554
I	204m S	Unspecified Tank	1899 - 1925	308140
I	206m S	Unspecified Tank	1899 - 1925	315469
O	294m S	Unspecified Tank	1995	297559
W	316m NW	Unspecified Tank	1980 - 1990	314964
S	334m NW	Unspecified Tank	1980 - 1990	314894
22	437m W	Unspecified Tank	1966	297550
AF	490m S	Unspecified Tank	1925	297547

This data is sourced from Ordnance Survey® / Groundsure.

1.3 Historical energy features

Records within 500m

15

Energy features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
5	On site	Electricity Substation	1977	186785
H	81m W	Electricity Substation	1977	185563
H	83m W	Electricity Transformers	1978	188973
H	84m W	Electricity Substation	1982 - 1990	197113
9	107m NW	Electricity Substation	1977	186784
12	204m NW	Electricity Substation	1990	186795
Q	220m E	Electricity Substation	1985 - 1990	198347
Q	223m E	Electricity Substation	1993	201493
I	268m S	Electricity Substation	1995	186781
T	299m E	Gas Governor	1990	188568
T	303m E	Gas Governor	1993	188565
18	336m E	Electricity Substation	1993	186782
24	448m NW	Electricity Substation	1990	186796
AE	463m W	Electricity Substation	1985 - 1990	191948
AE	464m W	Electricity Substation	1985	194040

This data is sourced from Ordnance Survey® / Groundsure.

1.4 Historical petrol stations

Records within 500m

3

Petrol stations digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
AB	428m S	Filling Station	1974	3350



ID	Location	Land use	Dates present	Group ID
AB	428m S	Filling Station	1971	3189
AB	429m S	Filling Station	1985 - 1990	3274

This data is sourced from Ordnance Survey® / Groundsure.

1.5 Historical garages

Records within 500m	5
----------------------------	----------

Garages digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Wagon Repairing Works	1925	61090
A	On site	Wagon Repair Shops	1985 - 1990	62737
A	1m NW	Wagon Repair Shops	1965 - 1966	63176
A	1m NW	Wagon Repair Shops	1972 - 1974	66171
S	293m W	Garage	1980	60972

This data is sourced from Ordnance Survey® / Groundsure.

1.6 Historical military land

Records within 500m	0
----------------------------	----------

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey® / Groundsure / other sources.

2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

2.1 Historical industrial land uses

Records within 500m

188

Potentially contaminative land use features digitised from historical Ordnance Survey® mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 24](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Iron Works	1950	1872746
A	On site	Unspecified Works	1988	1862065
A	On site	Unspecified Works	1980	1815879

ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Depot	1988	1844329
B	On site	Unspecified Depot	1980	1844329
C	On site	Unspecified Works	1988	1868316
C	On site	Unspecified Works	1980	1868316
C	On site	Railway Sidings	1950	1851574
D	On site	Unspecified Factory	1988	1861593
D	On site	Unspecified Factory	1980	1861593
D	On site	Mineral Railway Sidings	1938	1849908
E	On site	Railway Sidings	1988	1837879
E	On site	Railway Sidings	1980	1837879
F	On site	Unspecified Warehouses	1988	1875366
F	On site	Unspecified Warehouses	1980	1875366
G	On site	Unspecified Warehouses	1988	1872902
G	On site	Unspecified Warehouses	1980	1872902
G	On site	Tramway Sidings	1899	1805841
H	On site	Railway Building	1980	1823965
H	On site	Railway Building	1980	1803614
H	On site	Railway Building	1980	1834076
H	On site	Railway Building	1957	1823965
H	On site	Railway Buildings	1957	1851928
H	On site	Railway Buildings	1950	1857291
I	On site	Railway Sidings	1957	1823285
I	On site	Railway Sidings	1899	1832171
3	6m E	Railway Sidings	1884	1834167
H	13m NW	Railway Building	1938	1823749
H	16m NW	Railway Building	1957	1834076
J	27m NE	Railway Sidings	1884	1829823
J	35m NE	Unspecified Pit	1899	1777772



ID	Location	Land Use	Date	Group ID
J	48m N	Railway Sidings	1994	1825133
J	48m N	Railway Sidings	1974	1825133
J	49m N	Railway Sidings	1950	1830458
K	58m NE	Railway Building	1950	1842322
K	59m NE	Railway Building	1957	1842322
C	59m SW	Railway Building	1957	1803613
H	59m NW	Railway Buildings	1994	1853955
H	59m NW	Railway Buildings	1974	1853955
H	62m NW	Railway Building	1950	1860588
M	84m S	Iron Works	1938	1841892
M	102m S	Unspecified Depot	1988	1833881
M	102m S	Unspecified Depot	1980	1833881
4	104m NW	Industrial Estate	1990	1870820
O	110m SW	Unspecified Works	1988	1839938
O	110m SW	Unspecified Works	1980	1839938
H	115m NW	Railway Building	1950	1803617
P	116m W	Unspecified Works	1992	1858921
P	116m W	Unspecified Works	1989	1839938
P	116m W	Unspecified Works	1982	1839938
P	116m W	Unspecified Works	1977	1848207
Q	117m W	Unspecified Works	1992	1819715
Q	117m W	Unspecified Works	1989	1819715
Q	117m W	Unspecified Works	1982	1819715
Q	117m W	Unspecified Works	1977	1847717
Q	119m W	Unspecified Works	1992	1818721
Q	119m W	Unspecified Works	1989	1827886
Q	119m W	Unspecified Works	1982	1827886
Q	119m W	Unspecified Works	1977	1846420



ID	Location	Land Use	Date	Group ID
Q	125m W	Unspecified Works	1992	1819715
Q	125m W	Unspecified Works	1989	1819715
Q	125m W	Unspecified Works	1982	1819715
Q	125m W	Unspecified Works	1977	1847717
Q	128m W	Unspecified Pit	1938	1835220
Q	129m W	Unspecified Pit	1958	1866783
Q	129m W	Unspecified Pit	1950	1873432
Q	129m W	Unspecified Pit	1950	1873432
H	133m N	Chimney	1994	1853541
H	133m N	Chimney	1974	1853541
6	136m NE	Unspecified Heap	1938	1798499
R	137m SE	Tramway Sidings	1938	1871307
O	138m SW	Refuse Heap	1957	1783083
O	138m SW	Refuse Heaps	1950	1876903
O	138m SW	Refuse Heaps	1950	1876903
7	139m N	Tram Sidings	1938	1801097
R	139m SE	Industrial Estate	1988	1796283
R	139m SE	Unspecified Depot	1980	1790069
R	141m SE	Tramway Sidings	1899	1824268
S	144m NW	Unspecified Works	1975	1846420
R	145m SE	Tramway Sidings	1950	1827461
M	149m S	Unspecified Works	1988	1839938
M	149m S	Unspecified Works	1980	1839938
M	152m S	Iron Works	1899	1848156
M	156m S	Railway Building	1884	1803609
R	157m SE	Unspecified Works	1980	1795020
T	162m S	Brick Field	1884	1781236
U	163m S	Railway Buildings	1957	1783979



ID	Location	Land Use	Date	Group ID
M	165m S	Unspecified Kiln	1884	1799832
V	166m SW	Unspecified Works	1992	1858921
V	166m SW	Unspecified Works	1989	1839938
V	166m SW	Unspecified Works	1982	1839938
V	166m SW	Unspecified Works	1977	1848207
M	172m S	Unspecified Tanks	1899	1788932
M	172m S	Railway Building	1957	1803606
M	174m S	Railway Buildings	1957	1783980
R	176m SE	Railway Building	1950	1803611
M	177m S	Unspecified Kiln	1884	1799831
M	178m S	Railway Building	1957	1803615
M	179m S	Railway Building	1957	1803607
T	179m S	Brick Works	1899	1850370
T	180m S	Brick Works	1938	1832936
V	181m SW	Refuse Heaps	1958	1827856
W	181m SW	Railway Sidings	1958	1823285
M	184m S	Unspecified Tanks	1938	1855574
M	184m S	Unspecified Tanks	1899	1811332
M	185m S	Unspecified Tanks	1957	1834763
M	186m S	Unspecified Tanks	1950	1866019
U	186m SE	Railway Building	1988	1832652
U	186m SE	Railway Building	1980	1832652
M	188m S	Railway Building	1957	1803612
V	189m SW	Unspecified Works	1938	1814837
M	190m S	Unspecified Tanks	1938	1848192
M	191m S	Unspecified Tanks	1950	1866144
M	200m S	Unspecified Tanks	1899	1788931
Q	208m W	Unspecified Pit	1958	1834686



ID	Location	Land Use	Date	Group ID
T	209m S	Unspecified Factory	1988	1827753
U	210m SE	Railway Building	1988	1858470
U	210m SE	Railway Building	1980	1858470
Q	210m W	Unspecified Pit	1950	1815425
Q	210m W	Unspecified Pit	1950	1815425
U	216m SE	Railway Buildings	1957	1784065
T	217m S	Unspecified Factory	1980	1827753
M	218m S	Unspecified Factory	1988	1825660
M	218m S	Unspecified Factory	1980	1825660
T	221m S	Unspecified Ground Workings	1884	1785561
M	225m S	Railway Building	1957	1803616
Y	232m SW	Refuse Heap	1938	1878728
T	236m S	Unspecified Pit	1938	1816451
Z	244m W	Unspecified Works	1992	1859630
Z	244m W	Unspecified Works	1989	1859630
Z	244m W	Unspecified Works	1982	1859630
T	245m S	Unspecified Pit	1899	1832735
Y	256m SW	Unspecified Works	1992	1822871
Y	256m SW	Unspecified Works	1989	1822871
Y	256m SW	Unspecified Works	1982	1822871
Y	256m SW	Unspecified Works	1977	1872882
8	259m NW	Unspecified Warehouse	1975	1800798
AA	268m SW	Refuse Heap	1950	1854048
AA	268m SW	Refuse Heap	1950	1854048
9	273m SW	Unspecified Works	1958	1872744
T	274m S	Railway Buildings	1957	1783978
T	276m S	Unspecified Pit	1988	1877450
T	276m S	Unspecified Pit	1980	1877450



ID	Location	Land Use	Date	Group ID
M	286m S	Unspecified Heap	1950	1839218
M	286m S	Unspecified Heap	1950	1839218
M	287m S	Unspecified Ground Workings	1938	1785560
T	291m S	Railway Building	1957	1803605
AD	306m S	Refuse Heap	1950	1823548
AD	306m S	Refuse Heap	1950	1823548
AD	309m SW	Refuse Heap	1957	1838009
AE	309m S	Unspecified Pit	1988	1864137
AE	309m S	Unspecified Pit	1980	1864137
AF	315m NW	Cuttings	1884	1826334
AG	319m NW	Cuttings	1975	1781642
AH	322m W	Industrial Estate	1992	1815432
Y	323m SW	Refuse Heap	1958	1854356
Y	325m SW	Refuse Heap	1950	1808197
Y	325m SW	Refuse Heap	1950	1808197
AH	333m W	Refuse Heaps	1958	1822731
AH	334m W	Refuse Heaps	1950	1843305
AH	334m W	Refuse Heaps	1950	1843305
AI	339m W	Unspecified Warehouse	1989	1852655
AI	339m W	Unspecified Warehouse	1982	1852655
AF	358m NW	Cuttings	1950	1843799
W	358m W	Unspecified Works	1989	1876857
11	375m S	Locomotive Department	1950	1858382
AJ	376m S	Railway Building	1957	1804080
AJ	377m S	Railway Building	1957	1804079
W	382m W	Unspecified Works	1982	1876857
W	383m W	Unspecified Commercial/Industrial	1992	1790638
AK	397m S	Timber Yard	1988	1842349



ID	Location	Land Use	Date	Group ID
AK	397m S	Timber Yard	1980	1842349
AL	413m SW	Refuse Heap	1958	1827244
AL	419m SW	Refuse Heap	1950	1810518
AL	419m SW	Refuse Heap	1950	1810518
AF	429m NW	Cuttings	1971	1842407
AN	434m SW	Unspecified Pit	1992	1847748
AN	434m SW	Unspecified Pit	1989	1847748
AN	434m SW	Unspecified Pit	1982	1847748
AN	434m SW	Unspecified Pit	1977	1851709
AO	435m N	Mineral Railway Sidings	1950	1843234
12	445m NW	Unspecified Works	1975	1794692
AO	452m NW	Mineral Railway Sidings	1971	1845457
AP	459m E	Unspecified Works	1988	1834673
AP	459m E	Unspecified Works	1980	1834673
AR	481m S	Railway Building	1884	1803610
AR	485m S	Railway Buildings	1957	1784064
14	488m S	Tramway Sidings	1884	1816149

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m

38

Tank features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 24 >](#)

ID	Location	Land Use	Date	Group ID
N	107m SW	Unspecified Tank	1977	297557
N	112m W	Unspecified Tank	1977	297556
U	163m SE	Unspecified Tank	1925	297553



ID	Location	Land Use	Date	Group ID
R	167m E	Unspecified Tank	1985	307312
R	167m E	Unspecified Tank	1990	307312
Q	167m W	Unspecified Tank	1972	313361
Q	168m W	Unspecified Tank	1978	313361
Q	168m W	Unspecified Tank	1982	313361
Q	168m W	Unspecified Tank	1982	313361
Q	168m W	Unspecified Tank	1985	313361
Q	168m W	Unspecified Tank	1985	313361
Q	168m W	Unspecified Tank	1990	313361
R	170m E	Unspecified Tank	1974	312758
R	170m E	Unspecified Tank	1993	304480
M	176m S	Tanks	1925	306685
M	176m S	Tanks	1899	306685
M	188m S	Unspecified Tank	1899	297545
M	188m S	Tanks	1925	304319
M	188m S	Tanks	1899	304319
M	191m S	Unspecified Tank	1925	314693
M	191m S	Unspecified Tank	1899	314693
M	193m S	Tanks	1925	293815
M	201m S	Tanks	1925	293813
M	201m S	Unspecified Tank	1899	297544
R	203m SE	Unspecified Tank	1925	297554
M	204m S	Unspecified Tank	1925	308140
M	204m S	Unspecified Tank	1899	308140
M	206m S	Unspecified Tank	1925	315469
M	206m S	Unspecified Tank	1899	315469
T	294m S	Unspecified Tank	1995	297559
AG	316m NW	Unspecified Tank	1980	314964



ID	Location	Land Use	Date	Group ID
AG	316m NW	Unspecified Tank	1990	314964
AG	320m NW	Unspecified Tank	1980	314964
AG	321m NW	Unspecified Tank	1990	314964
AB	334m NW	Unspecified Tank	1980	314894
AB	334m NW	Unspecified Tank	1990	314894
W	437m W	Unspecified Tank	1966	297550
AR	490m S	Unspecified Tank	1925	297547

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m

21

Energy features digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 24 >](#)

ID	Location	Land Use	Date	Group ID
2	On site	Electricity Substation	1977	186785
L	81m W	Electricity Substation	1977	185563
L	83m W	Electricity Transformers	1978	188973
L	84m W	Electricity Substation	1982	197113
L	84m W	Electricity Substation	1982	197113
L	84m W	Electricity Substation	1985	197113
L	84m W	Electricity Substation	1985	197113
L	84m W	Electricity Substation	1990	197113
5	107m NW	Electricity Substation	1977	186784
S	204m NW	Electricity Substation	1990	186795
X	220m E	Electricity Substation	1985	198347
X	220m E	Electricity Substation	1990	198347
X	223m E	Electricity Substation	1993	201493



ID	Location	Land Use	Date	Group ID
M	268m S	Electricity Substation	1995	186781
AC	299m E	Gas Governor	1990	188568
AC	303m E	Gas Governor	1993	188565
10	336m E	Electricity Substation	1993	186782
13	448m NW	Electricity Substation	1990	186796
AQ	463m W	Electricity Substation	1985	191948
AQ	463m W	Electricity Substation	1990	191948
AQ	464m W	Electricity Substation	1985	194040

This data is sourced from Ordnance Survey® / Groundsure.

2.4 Historical petrol stations

Records within 500m

4

Petrol stations digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 24 >](#)

ID	Location	Land Use	Date	Group ID
AM	428m S	Filling Station	1974	3350
AM	428m S	Filling Station	1971	3189
AM	429m S	Filling Station	1985	3274
AM	429m S	Filling Station	1990	3274

This data is sourced from Ordnance Survey® / Groundsure.

2.5 Historical garages

Records within 500m

8

Garages digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 24 >](#)

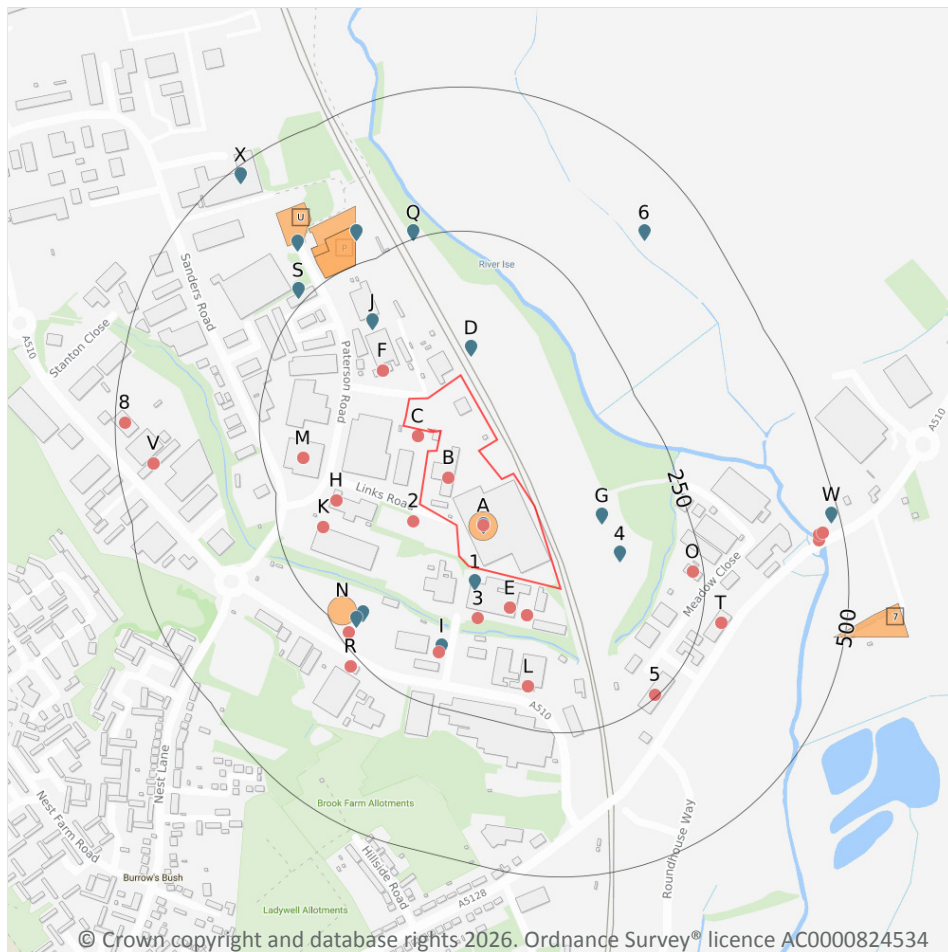


ID	Location	Land Use	Date	Group ID
H	On site	Wagon Repair Shops	1990	62737
H	On site	Wagon Repair Shops	1985	62737
H	On site	Wagon Repairing Works	1925	61090
H	1m NW	Wagon Repair Shops	1966	63176
H	1m NW	Wagon Repair Shops	1974	66171
H	50m N	Wagon Repair Shops	1972	66171
H	50m N	Wagon Repair Shops	1965	63176
AB	293m W	Garage	1980	60972

This data is sourced from Ordnance Survey® / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m**0**

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey®/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m**7**

Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on [page 36 >](#)

ID	Location	Address	Further Details	Date
A	On site	Site Address: 15-21 Links Road, Finedon Road, Industrial Estate, WELLINGBOROUGH, Northamptonshire, NN8 4EY	Type of Site: Waste Transfer Station Planning application reference: WP/2010/0482 Description: Scheme comprises non-material amendment to planning permission 10/00016/WAS to allow the storage and treatment of waste vegetable oil at an waste transfer station. An application (ref: WP/2010/0482) for detailed planning permission was submitted to Welngborough B.C. A detailed planning application has been submitted. Data source: Historic Planning Application Data Type: Point	10/03/2012

ID	Location	Address	Further Details	Date
N	199m SW	Site Address: 3 - 7 Bevan Close, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4BL	Type of Site: Recycling Centre Planning application reference: WP/19/00173/CRA Description: Scheme comprises operate the recycling of inert material from local surrounding areas Data source: Historic Planning Application Data Type: Point	22/03/2019
P	249m NW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
P	249m NW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1990
P	292m NW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1990
U	331m NW	Site Address: N/A	Type of Site: Recycling Centre Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1990
7	481m E	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1993

This data is sourced from Ordnance Survey®/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	38
----------------------------	-----------

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 36 >](#)



ID	Location	Details		
A	On site	Site Name: Think 3e Site Address: Units 15 - 21, Links Road, Finedon Road Ind Est, Wellingborough, Northants, NN8 4EY Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TH1009 EPR reference: EA/EPR/GP3092LF/S002 Operator: Think 3e Group Ltd Waste Management licence No: 101445 Annual Tonnage: 50000	Issue Date: 30/06/2010 Effective Date: - Modified: 02/02/2011 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	On site	Site Name: Oil 2 Go Site Address: 15-21 Unit 6, Links Road, Wellingborough, Northants, NN8 4EY Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 660903 EPR reference: EA/EPR/QP3597EH Operator: Oil 2 Go Limited Waste Management licence No: 102186 Annual Tonnage: 2999	Issue Date: 12/05/2011 Effective Date: 12/05/2011 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
A	On site	Site Name: Think 3e Site Address: Units 15 - 21, Links Road, Wellingborough, Northants, NN8 4EY Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 668373 EPR reference: EA/EPR/BB3404KM Operator: Think 3 E Consortium Limited Waste Management licence No: 101445 Annual Tonnage: 50000	Issue Date: 30/06/2010 Effective Date: 30/06/2010 Modified: 30/06/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
1	25m S	Site Name: A F G Transport Ltd Site Address: 6 Unit 1, Bevan Close, Wellingborough, Northants, NN8 4BL Correspondence Address: -	Type of Site: Vehicle Depollution Facility 5000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 651008 EPR reference: EA/EPR/DB3832AL Operator: A F G Transport Limited Waste Management licence No: 103674 Annual Tonnage: 4999	Issue Date: 28/11/2011 Effective Date: 28/11/2011 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
D	50m N	Site Name: Mining & Chemical Products Ltd Site Address: 1-4, Nielson Road, Finedon Road Industrial E, WELLINGBOROUGH, Northamptonshir, NN8 4PE Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 638543 EPR reference: EA/EPR/GP3495NL Operator: 5n Plus Uk Limited Waste Management licence No: 70669 Annual Tonnage: 5000	Issue Date: 06/08/1993 Effective Date: 06/08/1993 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
D	50m N	Site Name: Mining & Chemical Products Ltd Site Address: 1-4, Nielson Road, Finedon Road Industrial E, WELLINGBOROUGH, Northamptonshir, NN8 4PE Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: 652730 EPR reference: EA/EPR/GP3495NL Operator: 5n Plus Uk Limited Waste Management licence No: 70669 Annual Tonnage: 0	Issue Date: 06/08/1993 Effective Date: 06/08/1993 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
G	106m E	Site Name: Wellingborough Railhead Site Address: Neilsons Yard, Meadow Close, Wellingborough, Northants, NN8 4BH Correspondence Address: -	Type of Site: Inert & Excavation WTS with treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NOR437 EPR reference: EA/EPR/LB3733AF/A001 Operator: Northampton Aggregates Limited Waste Management licence No: 104797 Annual Tonnage: 249999	Issue Date: 29/10/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
G	106m E	Site Name: Wellingborough Railhead Site Address: Neilsons Yard, Meadow Close, Wellingborough, Northants, NN8 4BH Correspondence Address: -	Type of Site: Inert & Excavation WTS with treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NOR437 EPR reference: EA/EPR/LB3733AF/V002 Operator: G R S Rail Services Limited Waste Management licence No: 104797 Annual Tonnage: 249999	Issue Date: 29/10/2012 Effective Date: - Modified: 25/04/2018 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
4	115m E	Site Name: Wellingborough Railhead Site Address: Neilsons Yard, Meadow Close, Wellingborough, Northants, NN8 4BH Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 757913 EPR reference: EA/EPR/LB3733AF Operator: Grs (Roadstone) Limited Waste Management licence No: 104797 Annual Tonnage: 249999	Issue Date: 29/10/2012 Effective Date: 28/04/2025 Modified: 28/04/2025 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
I	147m S	Site Name: Larner Pallets (recycling) Limited Site Address: Bevan Close, Finedon Road Industrial Estate, Wellingborough, Northants, NN8 4BL Correspondence Address: Bevan Close, Finedon Rod Industrial Estate, Wellingborough, Northants, NN8 4BL	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAR001 EPR reference: - Operator: Larner Pallets (recycling) Limited Waste Management licence No: 73148 Annual Tonnage: 0	Issue Date: 22/12/2003 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
I	147m S	Site Name: Larner Pallets (Recycling) Ltd Site Address: Bevan Close, Finedon Road Industrial E, Wellingborough, North Northampt, NN8 4BL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 647067 EPR reference: EA/EPR/XP3892NJ Operator: Larner Pallets (Recycling) Limited Waste Management licence No: 73148 Annual Tonnage: 24999	Issue Date: 22/12/2003 Effective Date: 22/12/2003 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
J	148m NW	Site Name: V E K A Recycling Limited Site Address: 1-4, Nielson Road, Finedon Road Industrial E, Wellingborough, Northamptonshir, NN8 4PE Correspondence Address: -	Type of Site: Mining Waste Operations Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEK002 EPR reference: EA/EPR/GB3802TJ/A001 Operator: V E K A Recycling Limited Waste Management licence No: 405770 Annual Tonnage: 74999	Issue Date: 22/03/2019 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
J	148m NW	Site Name: V E K A Recycling Limited Site Address: 1-4, Nielson Road, Finedon Road Industrial E, Wellingborough, Northants, NN8 4PE Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEK002 EPR reference: EA/EPR/GB3802TJ/A001 Operator: V E K A Recycling Limited Waste Management licence No: 405770 Annual Tonnage: 74999	Issue Date: 22/03/2019 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
J	148m NW	Site Name: V E K A Recycling Limited Site Address: 1-4, Nielson Road, Finedon Road Industrial E, WELLINGBOROUGH, Northamptonshir, NN8 4PE Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 661262 EPR reference: EA/EPR/GB3802TJ Operator: Veka Recycling Limited Waste Management licence No: 405770 Annual Tonnage: 74999	Issue Date: 22/03/2019 Effective Date: 22/03/2019 Modified: 22/03/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
N	195m SW	Site Name: Larner Pallets Recycling Site Address: Bevan Close, Finedon Industrial Estate, Wellingborough, Northants, NN8 4BL Correspondence Address: -	Type of Site: Treatment of waste wood 75000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAR012 EPR reference: EA/EPR/FB3838RH/A001 Operator: Larner Timber Recycling Ltd Waste Management licence No: 104027 Annual Tonnage: 74999	Issue Date: 08/05/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked



ID	Location	Details		
N	195m SW	Site Name: Larner Pallets Recycling Site Address: Bevan Close, Finedon Road Industrial E, Wellingborough, North Northampt, NN8 4BL Correspondence Address: -	Type of Site: Treatment of waste wood 75000 tps Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 645303 EPR reference: EA/EPR/FB3838RH Operator: Larner Timber Recycling Limited Waste Management licence No: 104027 Annual Tonnage: 74999	Issue Date: 08/05/2012 Effective Date: 08/05/2012 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
N	211m SW	Site Name: Grabhire4u Ltd Site Address: 7, Bevan Close, Wellingborough, Northamptonshir, NN8 4BL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GHF001 EPR reference: EA/EPR/HB3100MJ/A001 Operator: Grabhire4u Ltd Waste Management licence No: 405987 Annual Tonnage: 74999	Issue Date: 23/06/2020 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
N	211m SW	Site Name: Grabhire4u Ltd Site Address: 7, Bevan Close, Wellingborough, Northants, NN8 4BL Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 653709 EPR reference: EA/EPR/HB3100MJ Operator: Grabhire4u Limited Waste Management licence No: 405987 Annual Tonnage: 74999	Issue Date: 23/06/2020 Effective Date: 23/06/2020 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked



ID	Location	Details		
Q	260m N	Site Name: Premier Waste Transfer Station Site Address: Premier Waste Ltd, 36-38, Paterson Road, Finedon Road le, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PRE001 EPR reference: EA/EPR/GP3895NF/A001 Operator: Premier Waste Ltd Waste Management licence No: 70667 Annual Tonnage: 79150	Issue Date: 24/12/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: 01/01/2000 Cancelled Date: - Status: Expired
Q	260m N	Site Name: Premier Waste Transfer Station Site Address: 36-38, Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 626219 EPR reference: EA/EPR/GP3895NF Operator: Premier Waste (Uk) Plc Waste Management licence No: 70667 Annual Tonnage: 79150	Issue Date: 24/12/1991 Effective Date: 24/12/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
Q	260m N	Site Name: Premier Waste Transfer Station Site Address: 36-38, Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: 641547 EPR reference: EA/EPR/GP3895NF Operator: Premier Waste (Uk) Plc Waste Management licence No: 70667 Annual Tonnage: 0	Issue Date: 24/12/1991 Effective Date: 24/12/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
S	269m NW	Site Name: Paterson Road Household Waste Recycling Centre Site Address: Northamptonshire County Council, Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: Northamptonshire County Council, John Dryden House Po Baux 221, 8-10, The Lakes, Northampton, Northants, NN4 7DE	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NOR013 EPR reference: - Operator: Northamptonshire County Council Waste Management licence No: 70671 Annual Tonnage: 25000	Issue Date: 01/09/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
S	269m NW	Site Name: Wellingborough Household Waste Recycling Centre Site Address: Northamptonshire County Council, Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: 75kte Non-hazardous & hazardous HWA Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NOR013 EPR reference: GP3695NG/V001 Operator: Northamptonshire County Council Waste Management licence No: 70671 Annual Tonnage: 0	Issue Date: 01/09/1992 Effective Date: - Modified: 17/05/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
S	269m NW	Site Name: Paterson Road Household Waste Recycling Centre Site Address: Northamptonshire County Council, Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: Northamptonshire County Council, John Dryden House Po Box 221, 8-10, The Lakes, Northampton, Northants, NN4 7DE	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NOR013 EPR reference: - Operator: Northamptonshire County Council Waste Management licence No: 70671 Annual Tonnage: 25000	Issue Date: 01/09/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
P	302m N	Site Name: F & R Cawley Ltd Site Address: 36-38 Paterson Road, Finedon Rd Ind Est, Wellingborough, Northants, NN8 4BZ Correspondence Address: 1, Covent Garden Close, Luton, Bedfordshire, LU4 8QB	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PRE002 EPR reference: - Operator: F & R Cawley Ltd Waste Management licence No: 73042 Annual Tonnage: 75000	Issue Date: 14/05/1999 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
P	302m N	Site Name: F & R Cawley Ltd Site Address: 36-38, Paterson Road, Finedon Rd Ind Est, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PRE002 EPR reference: EA/EPR/JP3494NM/V005 Operator: F & R Cawley Ltd Waste Management licence No: 73042 Annual Tonnage: 74999	Issue Date: 14/05/1999 Effective Date: - Modified: 08/07/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
P	302m N	Site Name: F & R Cawley Limited Site Address: F & R Cawley Limited, Neilson Road Off Paterson Road, Finedon Rd Ind Est, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PRE002 EPR reference: EA/EPR/JP3494NM/V006 Operator: F & R Cawley Limited Waste Management licence No: 73042 Annual Tonnage: 74999	Issue Date: 14/05/1999 Effective Date: - Modified: 15/05/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
P	302m N	Site Name: Neilson Road Depot Site Address: Neilson Road Depot, Off Paterson Road, Finedon Rd Ind Est, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PRE002 EPR reference: EA/EPR/JP3494NM/V007 Operator: F & R Cawley Limited Waste Management licence No: 73042 Annual Tonnage: 74999	Issue Date: 14/05/1999 Effective Date: - Modified: 29/10/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
P	302m N	Site Name: Neilson Road Depot Site Address: Neilson Road Depot, Off Paterson Road, Finedon Rd Ind Est, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PRE002 EPR reference: EA/EPR/JP3494NM/V007 Operator: F & R Cawley Ltd Waste Management licence No: 73042 Annual Tonnage: 74999	Issue Date: 14/05/1999 Effective Date: - Modified: 29/10/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
P	302m N	Site Name: Neilson Road Depot Site Address: Neilson Road Depot, Off Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 654940 EPR reference: EA/EPR/JP3494NM Operator: F & R Cawley Limited Waste Management licence No: 73042 Annual Tonnage: 74999	Issue Date: 14/05/1999 Effective Date: 14/05/1999 Modified: 22/04/2024 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
U	333m NW	Site Name: Wellingborough Household Waste Recycling Centre Site Address: Northamptonshire County Council, 40, Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: 75kte Non-hazardous & hazardous HWA Site Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EMS012 EPR reference: EA/EPR/GP3993VW/V Operator: Enterprise Managed Services Ltd Waste Management licence No: 70671 Annual Tonnage: 74999	Issue Date: 01/09/1992 Effective Date: 07/07/2010 Modified: 02/09/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
U	333m NW	Site Name: Wellingborough Household Waste Recycling Centre Site Address: Northamptonshire County Council, 40, Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: 75kte Non-hazardous & hazardous HWA Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EMS012 EPR reference: EA/EPR/GP3993VW/V Operator: Enterprise Managed Services Ltd Waste Management licence No: 70671 Annual Tonnage: 74999	Issue Date: 01/09/1992 Effective Date: 07/07/2010 Modified: 02/09/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
U	333m NW	Site Name: Wellingborough H W R C Site Address: Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: - Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 684674 EPR reference: EA/EPR/KB3008XS Operator: H W Martin Waste Limited Waste Management licence No: 70671 Annual Tonnage: 74999	Issue Date: 01/09/1992 Effective Date: 01/04/2025 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
6	402m NE	Site Name: Eady's Autos Site Address: Higham Road, Burton Latimer, Kettering, Northants, NN15 5PU Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 669299 EPR reference: EA/EPR/PP3992NV Operator: Rodney Eady Waste Management licence No: 73061 Annual Tonnage: 0	Issue Date: 19/12/1997 Effective Date: 19/12/1997 Modified: - Surrendered Date: 19/12/1997 Expiry Date: - Cancelled Date: - Status: Surrendered
X	486m NW	Site Name: N S Motors Site Address: N S Motors, Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MOT001 EPR reference: EA/EPR/KP3995NW/A001 Operator: N S Motors Waste Management licence No: 70677 Annual Tonnage: 30000	Issue Date: 09/10/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: 01/01/2000 Cancelled Date: - Status: Expired



ID	Location	Details		
X	486m NW	Site Name: N S Motors Site Address: Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 654530 EPR reference: EA/EPR/KP3995NW Operator: N S Motors Waste Management licence No: 70677 Annual Tonnage: 30000	Issue Date: 09/10/1991 Effective Date: 09/10/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
X	486m NW	Site Name: N S Motors Site Address: Paterson Road, Wellingborough, Northants, NN8 4BZ Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: 668757 EPR reference: EA/EPR/KP3995NW Operator: N S Motors Waste Management licence No: 70677 Annual Tonnage: 0	Issue Date: 09/10/1991 Effective Date: 09/10/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
W	486m E	Site Name: Wellingborough Motor Centre Site Address: Unit 1 Brookside Garages, Finedon Road, Wellingborough, Northants, NN8 4BW Correspondence Address: -	Type of Site: Vehicle Depollution Facility 5000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 656688 EPR reference: EA/EPR/PB3430RD Operator: Wellingborough Motor Centre Limited Waste Management licence No: 400196 Annual Tonnage: 0	Issue Date: 16/04/2013 Effective Date: 16/04/2013 Modified: - Surrendered Date: 16/04/2013 Expiry Date: - Cancelled Date: - Status: Surrendered

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

63

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 36 >](#)



ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	Univar Solutions Uk Ltd, 9-11 Links Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4ey	WEX274013	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	On site	Think 3 E, 155-17 Links Road, Wellingborough, Norhtants, Nn8 4ey	WEX296162	Treating waste exemption	Not on a farm	Treatment of waste food
A	On site	Think 3e Consortium Limited, 15-21 Links Road, Wellingborough, Nn8 4ey	WEX375834	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	On site	Think 3 E, 155-17 Links Road, Wellingborough, Norhtants, Nn8 4ey	WEX159278	Treating waste exemption	Not on a farm	Treatment of waste food
B	On site	9-11, Links Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4ey	WEX131992	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	On site	Think 3 E, 155-17 Links Road, Wellingborough, Norhtants, Nn8 4ey	WEX425685	Treating waste exemption	Not on a farm	Treatment of waste food
C	13m S	-	WEX390615	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
C	13m S	-	WEX390615	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	13m S	-	WEX390615	Treating waste exemption	Not on a farm	Treatment of waste food
C	13m S	-	WEX390615	Storing waste exemption	Not on a farm	Storage of waste in a secure place
2	32m SW	9-11 Links Road Wellingborough Northamptonshire Nn8 4ey	EPR/FF0702KE /A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
E	54m S	Unit 10-11, 6, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX400785	Using waste exemption	Not on a farm	Use of waste in the construction of entertainment or educational installations etc
E	54m S	Unit 10-11, 6, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX400785	Using waste exemption	Not on a farm	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
E	54m S	Unit 10-11, 6, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX400785	Using waste exemption	Not on a farm	Use of waste in construction
E	54m S	Unit 10-11, 6, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX400785	Treating waste exemption	Not on a farm	Sorting mixed waste
E	54m S	Unit 10-11, 6, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX400785	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	54m S	Unit 10-11, 6, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX400785	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	54m S	Unit 10-11, 6, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX400785	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
E	54m S	Unit 10-11, 6, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX400785	Treating waste exemption	Not on a farm	Recovery of textiles
E	60m S	15, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX159200	Treating waste exemption	Not on a farm	Screening and blending of waste
E	60m S	15, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX159200	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	60m S	15, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX159200	Using waste exemption	Not on a farm	Use of waste in construction
F	68m NW	1-4, Nielson Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4pe	WEX247366	Using waste exemption	Not on a farm	Use of waste in construction
F	68m NW	1-4, Nielson Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4pe	WEX247366	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
F	68m NW	1-4, Nielson Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4pe	WEX247366	Storing waste exemption	Not on a farm	Storage of waste in secure containers
F	68m NW	1-4, Nielson Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4pe	WEX247366	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
F	68m NW	1-4, Nielson Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4pe	WEX247366	Using waste exemption	Not on a farm	Use of waste for a specified purpose
F	68m NW	1-4, Nielson Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4pe	WEX247366	Treating waste exemption	Not on a farm	Sorting mixed waste
F	68m NW	1-4, Nielson Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4pe	WEX247366	Treating waste exemption	Not on a farm	Recovery of scrap metal
F	68m NW	1-4, Nielson Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4pe	WEX121258	Storing waste exemption	Not on a farm	Storage of waste in secure containers
F	68m NW	1-4, Nielson Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4pe	WEX121258	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
3	85m S	Bevan Close Northamptonshire Nn8 4bl	EPR/PE5585HF /A001	Treating waste exemption	Non-agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
H	146m W	-	WEX255960	Storing waste exemption	Not on a farm	Storage of waste in a secure place
H	146m W	-	WEX255960	Storing waste exemption	Not on a farm	Storage of waste in secure containers
H	146m W	-	WEX255960	Storing waste exemption	Not on a farm	Storage of sludge
I	159m S	7, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX159187	Treating waste exemption	Not on a farm	Screening and blending of waste
I	159m S	7, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Nn8 4bl	WEX159187	Using waste exemption	Not on a farm	Use of waste in construction
K	172m W	-	WEX374744	Storing waste exemption	Not on a farm	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
K	172m W	-	WEX374744	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	179m S	Grabhire4u, Rixon Road, Wellingborough, Nn8 4bb	WEX272467	Using waste exemption	Not on a farm	Use of waste in construction
L	179m S	Grabhire4u, Rixon Road, Wellingborough, Nn8 4bb	WEX272467	Treating waste exemption	Not on a farm	Screening and blending of waste
L	179m S	2-26, Rixon Road, Finedon Road Industrial Estate, Wellingborough, Nn8 4bb	WEX421300	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
M	184m W	Linde, Unit 6-8 Paterson Road, Wellingborough, Nn8 4ex	WEX247706	Storing waste exemption	Not on a farm	Storage of waste in a secure place
M	184m W	Linde, Unit 6-8 Paterson Road, Wellingborough, Nn8 4ex	WEX247706	Storing waste exemption	Not on a farm	Storage of waste in secure containers
M	184m W	Linde, Unit 6-8 Paterson Road, Wellingborough, Nn8 4ex	WEX247706	Using waste exemption	Not on a farm	Use of depolluted end-of-life vehicles for vehicle parts
O	230m E	25-31, Meadow Close, Ise Valley Industrial Estate, Wellingborough, Nn8 4bh	WEX233992	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
O	231m E	10-14 Meadow Close Wellingborough Nn8 4bh	EPR/VF0108X D/A001	Using waste exemption	Non-agricultural waste only	Burning of waste as a fuel in a small appliance
N	234m SW	-	WEX420545	Treating waste exemption	Not on a farm	Screening and blending of waste
5	246m SE	-	WEX478795	Storing waste exemption	Not on a farm	Storage of waste in a secure place
R	269m SW	3-7, Co Lanner Pallets, Wellingborough, Nn8 4ba	WEX160209	Treating waste exemption	Not on a farm	Screening and blending of waste
R	269m SW	3-7, Co Lanner Pallets, Wellingborough, Nn8 4ba	WEX160209	Using waste exemption	Not on a farm	Use of waste in construction
R	269m SW	3-7, Co Lanner Pallets, Wellingborough, Nn8 4ba	WEX160209	Storing waste exemption	Not on a farm	Storage of waste in a secure place
T	284m E	10-14, Meadow Close, Ise Valley Industrial Estate, Wellingborough, Nn8 4bh	WEX125677	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance

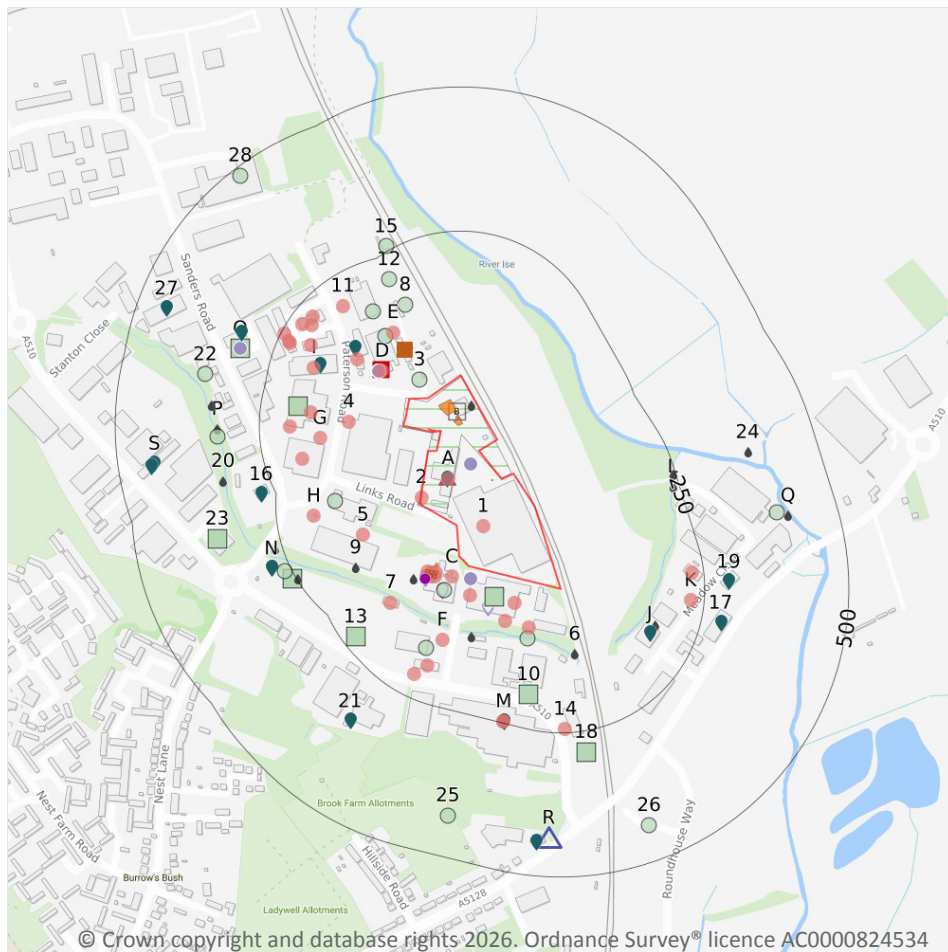


ID	Location	Site	Reference	Category	Sub-Category	Description
T	284m E	-	WEX266446	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
V	439m W	10-14 Stewarts Rd Wellingborough Nn8 4rj	EPR/KF0604HR/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in secure containers
V	439m W	10-14 Stewarts Rd Wellingborough Nn8 4rj	EPR/KF0604HR/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
V	439m W	10-14 Stewarts Rd Wellingborough Nn8 4rj	EPR/KF0604HR/A001	Treating waste exemption	Non-agricultural waste only	Cleaning, washing, spraying or coating relevant waste
V	439m W	10-14 Stewarts Rd Wellingborough Nn8 4rj	EPR/SF0101HF/A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
W	455m E	-	WEX114075	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
W	457m E	-	WEX115928	Using waste exemption	Not on a farm	Spreading waste on agricultural land to confer benefit
W	464m E	-	WEX062028	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
W	464m E	-	WEX062028	Using waste exemption	On a farm	Use of waste in construction
8	484m W	33-41 Stewarts Road Wellingborough Northamptonshire Nn8 4rj	EPR/HE5987CH/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in secure containers

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- NGD current or recent tanks
- ▲ Current or recent petrol stations
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollutant release to public sewer
- List 1 Dangerous Substances
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)
- Pollution inventory substances
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m

43

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 55](#) >

ID	Location	Company	Address	Activity	Category
1	On site	Think 3 E Consortium	15-21, Links Road, Wellingborough, Northamptonshire, NN8 4EY	Recycling, Reclamation and Disposal	Recycling Services
2	On site	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	On site	Univar UK Ltd	9-11, Links Road, Wellingborough, Northamptonshire, NN8 4EY	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
C	34m SW	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
C	43m S	Ready Steady Store	Unit 12 6, Bevan Close, Wellingborough, Northamptonshire, NN8 4BL	Container and Storage	Transport, Storage and Delivery
C	49m S	Flash Flood Doors	Unit 4 6, Bevan Close, Wellingborough, Northamptonshire, NN8 4BL	General Construction Supplies	Industrial Products
C	50m SW	Silo	Northamptonshire, NN8	Hoppers and Silos	Farming
C	55m SW	Silo	Northamptonshire, NN8	Hoppers and Silos	Farming
C	55m SW	Silo	Northamptonshire, NN8	Hoppers and Silos	Farming
C	56m SW	Silo	Northamptonshire, NN8	Hoppers and Silos	Farming
C	60m SW	Silo	Northamptonshire, NN8	Hoppers and Silos	Farming
C	61m SW	Silo	Northamptonshire, NN8	Hoppers and Silos	Farming
C	65m SW	Silo	Northamptonshire, NN8	Hoppers and Silos	Farming
D	68m NW	Veka Recycling	1-4, Nielson Road, Wellingborough, Northamptonshire, NN8 4PE	Recycling, Reclamation and Disposal	Recycling Services
C	78m S	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
C	79m S	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
4	95m W	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
5	112m SW	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
D	114m NW	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
E	119m N	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
F	136m S	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
7	143m SW	Pyramid Pallets	4a, Bevan Close, Wellingborough, Northamptonshire, NN8 4BL	Packaging	Industrial Products



ID	Location	Company	Address	Activity	Category
G	147m W	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
G	162m W	Gallay	9-15, Paterson Road, Wellingborough, Northamptonshire, NN8 4BZ	Cooling and Refrigeration	Industrial Products
I	174m W	Metal Craft Industries UK Ltd	17-21, Paterson Road, Wellingborough, Northamptonshire, NN8 4BZ	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
G	184m W	Astraseal Ltd	1-7, Paterson Road, Wellingborough, Northamptonshire, NN8 4EX	Conservatories	Consumer Products
H	185m W	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
F	186m SW	D C V Engineering Plant Hire	28, Rixon Road, Wellingborough, Northamptonshire, NN8 4BA	Construction and Tool Hire	Hire Services
I	194m NW	Mosaic Print & Packaging	3, Bentley Court, Wellingborough, Northamptonshire, NN8 4BQ	Plate Makers, Print Finishers and Type Setters	IT, Advertising, Marketing and Media Services
G	197m W	Mast (Telecommunication)	Northamptonshire, NN8	Telecommunications Features	Infrastructure and Facilities
11	198m NW	Electricity Sub Stations	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
F	210m SW	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
I	212m NW	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
I	220m NW	Mix Flow Systems	17, Bentley Court, Wellingborough, Northamptonshire, NN8 4BQ	Special Purpose Machinery and Equipment	Industrial Products
K	226m E	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
I	226m NW	Martin Brothers Curtains	20, Bentley Court, Wellingborough, Northamptonshire, NN8 4BQ	Curtains and Blinds	Consumer Products
I	229m NW	Owen Refrigeration Ltd	5, Bentley Court, Wellingborough, Northamptonshire, NN8 4BQ	Electrical Equipment Repair and Servicing	Repair and Servicing



ID	Location	Company	Address	Activity	Category
K	230m E	Steadfast Roofing Merchants	25-27, Meadow Close, Wellingborough, Northamptonshire, NN8 4BH	General Construction Supplies	Industrial Products
I	232m NW	Elizabeth Parker	6, Bentley Court, Wellingborough, Northamptonshire, NN8 4BQ	Clothing, Components and Accessories	Consumer Products
14	243m S	Electricity Sub Station	Northamptonshire, NN8	Electrical Features	Infrastructure and Facilities
I	245m NW	N P Autos	7, Bentley Court, Wellingborough, Northamptonshire, NN8 4BQ	Vehicle Repair, Testing and Servicing	Repair and Servicing
M	247m S	Polyrey UK	9-29, Rixon Road, Wellingborough, Northamptonshire, NN8 4BA	Industrial Coatings and Finishings	Industrial Products
M	247m S	Bushboard Ltd	9-29, Rixon Road, Wellingborough, Northamptonshire, NN8 4BA	General Construction Supplies	Industrial Products

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	12
----------------------------	-----------

Current or recent tanks identified from the Ordnance Survey® NGD.

Features are displayed on the Current industrial land use map on [page 55 >](#)

ID	Location	Tank description	Activity	Date first identified
A	On site	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	27/12/2024
B	On site	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	03/10/2016
B	On site	Open Storage Tank	Commercial Activity: Distribution Or Storage	26/12/2024
B	On site	Open Storage Tank	Commercial Activity: Distribution Or Storage	26/12/2024
B	On site	Open Storage Tank	Commercial Activity: Distribution Or Storage	26/12/2024
C	39m W	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	03/10/2016
C	47m SW	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	01/09/1992
C	52m SW	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	01/09/1992
C	53m SW	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	01/09/1992
C	57m SW	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	01/09/1992
C	58m SW	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	01/09/1992



ID	Location	Tank description	Activity	Date first identified
C	62m SW	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	01/09/1992

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	1
----------------------------	----------

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 55 >](#)

ID	Location	Company	Address	LPG	Status
R	433m S	SHELL	Finedon Road, Wellingborough, Northamptonshire, NN8 4AL	No	Open

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0
----------------------------	----------

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0
----------------------------	----------

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 Sites determined as Contaminated Land

Records within 500m	0
----------------------------	----------

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m

1

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on [page 55 >](#)

ID	Location	Company	Address	Operational status	Tier
B	On site	Univar Solutions UK Limited	Univar Solutions UK Limited, Wellingborough, Finedon Road Industrial Estate, Links Road, Wellingborough, Northamptonshire, NN8 4EY	Historical COMAH Site	COMAH Lower Tier Operator

This data is sourced from the Health and Safety Executive.

4.8 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.9 Hazardous substance storage/usage

Records within 500m

1

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on [page 55 >](#)

ID	Location	Details	
A	On site	Application reference number: WP/2003/0726 Application status: Approved Application date: 18/11/2003 Address: Univar Solutions UK Ltd, Finedon Road Ind Estate, Links Road, Wellingborough, Northamptonshire, England, NN8 4EY	Details: Continuation of hazardous substance consent for the amendment of storage limits dangerous to the environment material Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.



4.10 Historical licensed industrial activities (IPC)

Records within 500m

21

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

Features are displayed on the Current industrial land use map on [page 55](#) >

ID	Location	Details	
A	On site	Operator: Univar Ltd Address: Links Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4EY Process: Processes Involving Halogens Permit Number: AP0585	Original Permit Number: IPCAPP Date Approved: 10-3-1995 Effective Date: 1-4-1995 Status: Superseded By Variation
A	On site	Operator: Univar Ltd Address: Links Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4EY Process: Processes Involving Halogens Permit Number: BD0362	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
A	On site	Operator: Univar Ltd Address: Links Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4EY Process: Processes Involving Halogens Permit Number: BI6929	Original Permit Number: IPCMINVAR Date Approved: 12-12-2000 Effective Date: 13-12-2000 Status: Superseded By Variation
A	On site	Operator: Univar Ltd Address: Links Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4EY Process: Processes Involving Halogens Permit Number: BX7495	Original Permit Number: IPCMINVAR Date Approved: 22-7-2004 Effective Date: 1-8-2004 Status: Revoked
C	21m S	Operator: Escol Panels (s and G) Ltd (dissolved) Address: Paisley Works, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4BL Process: Inorganic Chemical Processes Permit Number: AN9085	Original Permit Number: IPCAPP Date Approved: 25-11-1994 Effective Date: 1-1-1995 Status: Superseded By Variation
C	21m S	Operator: Escol Panels (s and G) Ltd (dissolved) Address: Paisley Works, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4BL Process: Inorganic Chemical Processes Permit Number: BC9127	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation

ID	Location	Details	
C	21m S	Operator: Escol Panels (s and G) Ltd (dissolved) Address: Paisley Works, Bevan Close, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4BL Process: Inorganic Chemical Processes Permit Number: BF9476	Original Permit Number: IPCMINVAR Date Approved: 25-6-1999 Effective Date: 1-7-1999 Status: Revoked
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Processes Involving Halogens Permit Number: AI8641	Original Permit Number: IPCAPP Date Approved: 19-9-1993 Effective Date: 19-9-1993 Status: Superseded By Variation
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Processes Involving Halogens Permit Number: AN7007	Original Permit Number: IPCMAJVAR Date Approved: 26-1-1995 Effective Date: 1-2-1995 Status: Superseded By Variation
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Non-ferrous Metals Permit Number: AS2530	Original Permit Number: IPCAIRAPP Date Approved: 30-10-1995 Effective Date: 1-11-1995 Status: Superseded By Variation
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Non-ferrous Metals Permit Number: AS7272	Original Permit Number: IPCAPP Date Approved: 20-11-1995 Effective Date: 1-12-1995 Status: Superseded By Variation
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Processes Involving Halogens Permit Number: AY7518	Original Permit Number: IPCMAJVAR Date Approved: 15-9-1997 Effective Date: 15-9-1997 Status: Superseded By Variation
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Non-ferrous Metals Permit Number: BB0043	Original Permit Number: IPCAPP Date Approved: 29-6-1998 Effective Date: 1-7-1998 Status: Superseded By Variation
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Non-ferrous Metals Permit Number: BD1873	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc



ID	Location	Details	
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Non-ferrous Metals Permit Number: BD2454	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Processes Involving Halogens Permit Number: BD9548	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Non-ferrous Metals Permit Number: BE4126	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Manufacture And Use Of Organic Chemicals Permit Number: BH2979	Original Permit Number: IPCMAJVAR Date Approved: 18-2-2000 Effective Date: 25-2-2000 Status: Superseded By Variation
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Inorganic Chemical Processes Permit Number: BK2585	Original Permit Number: IPCMAJVAR Date Approved: 19-4-2001 Effective Date: 23-4-2001 Status: Revoked - Now Ippc
D	71m NW	Operator: Mining and Chemical Products Ltd Address: 1-4 Nielson Road, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4PE Process: Non-ferrous Metals Permit Number: BL0286	Original Permit Number: IPCMINVAR Date Approved: 14-9-2001 Effective Date: 21-9-2001 Status: Revoked - Now Ippc
O	306m W	Operator: Fuel Oils (kent) Ltd Address: Unit 3, Bradfield Close, Finedon Road Industrial Estate, Wellingborough, Northamptonshire, NN8 4RQ Process: Non-ferrous Metals Permit Number: AH4853	Original Permit Number: IPCAPP Date Approved: 27-9-1993 Effective Date: 27-9-1993 Status: Revoked

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed industrial activities (Part A(1))

Records within 500m

53

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 55](#) >

ID	Location	Details	
C	62m S	Operator: GREEN PLAN ENERGY (WELLINGBOROUGH) LIMITED Installation Name: GPE WELLINGBOROUGH Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: HP3030AE Original Permit Number: HP3030AE	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/01/2016 Status: DETERMINATION
C	63m SW	Operator: PREMIER FOODS GROUP LIMITED Installation Name: Finedon Mill, Wellingborough Process: ASSOCIATED PROCESS Permit Number: LP3435GR Original Permit Number: LP3435GR	EPR Reference: EPR/LP3435GR Issue Date: 26/03/2009 Effective Date: 26/03/2009 Last date noted as effective: 07/01/2026 Status: Superseded
C	63m SW	Operator: PREMIER FOODS GROUP LIMITED Installation Name: Finedon Mill, Wellingborough Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: LP3435GR Original Permit Number: LP3435GR	EPR Reference: EPR/LP3435GR Issue Date: 26/03/2009 Effective Date: 26/03/2009 Last date noted as effective: 07/01/2026 Status: Superseded
C	63m SW	Operator: RANK HOVIS LIMITED Installation Name: Finedon Mill, Wellingborough Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: BT3528IS Original Permit Number: BT3528IS	EPR Reference: EPR/BT3528IS Issue Date: 08/11/2005 Effective Date: 08/11/2005 Last date noted as effective: 07/01/2026 Status: Superseded
C	63m SW	Operator: RANK HOVIS LIMITED Installation Name: Finedon Mill, Wellingborough Process: ASSOCIATED PROCESS Permit Number: BT3528IS Original Permit Number: BT3528IS	EPR Reference: EPR/BT3528IS Issue Date: 08/11/2005 Effective Date: 08/11/2005 Last date noted as effective: 07/01/2026 Status: Superseded



ID	Location	Details	
D	71m NW	Operator: 5N PLUS UK LIMITED Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; USING ETC OF ANTIMONY ETC (UNLESS OTHERWISE PRESCRINED) (UNLESS GLAZING ETC) Permit Number: BL3781IX Original Permit Number: BL3781IX	EPR Reference: EPR/BL3781IX Issue Date: 26/11/2002 Effective Date: 23/10/2017 Last date noted as effective: 07/01/2026 Status: Surrendered
D	71m NW	Operator: 5N PLUS UK LIMITED Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: BL3781IX Original Permit Number: BL3781IX	EPR Reference: EPR/BL3781IX Issue Date: 26/11/2002 Effective Date: 23/10/2017 Last date noted as effective: 07/01/2026 Status: Surrendered
D	71m NW	Operator: 5N PLUS UK LIMITED Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; NON METALS ETC EG CALCIUM CARBIDE Permit Number: LP3433JA Original Permit Number: BL3781IX	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 30/11/2017 Status: DETERMINATION
D	71m NW	Operator: 5N PLUS UK LIMITED Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: ASSOCIATED PROCESS Permit Number: LP3433JA Original Permit Number: BL3781IX	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 30/11/2017 Status: DETERMINATION
D	71m NW	Operator: 5N PLUS UK LIMITED Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: LP3433JA Original Permit Number: BL3781IX	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 30/11/2017 Status: DETERMINATION
D	71m NW	Operator: 5N PLUS UK LIMITED Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: MANUFACTURING THE USE OF, OR THE USE OF ANTIMONY, ARSENIC, BERYLLIUM, GALLIUM, INDIUM, LEAD, PALLADIUM, PLATINUM, SELENIUM, TELLURIUM AND THALLIUM Permit Number: LP3433JA Original Permit Number: BL3781IX	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 30/11/2017 Status: DETERMINATION

ID	Location	Details	
D	71m NW	Operator: 5N PLUS UK LIMITED Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; MANUFACTURING ETC BERYLLIUM/SELENIUM AND ALLOY WITH RELEASE TO AIR (UNLESS 0.1 PERCENT BERYLLIUM AND 2.1 B (A) OR (D)) Permit Number: LP3433JA Original Permit Number: BL3781IX	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 30/11/2017 Status: DETERMINATION
D	71m NW	Operator: 5N PLUS UK LIMITED Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: LP3433JA Original Permit Number: BL3781IX	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 30/11/2017 Status: DETERMINATION
D	71m NW	Operator: 5N PLUS UK LIMITED Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: RECOVERY OF GALLIUM; INDIUM; PALLADIUM; TELLURIUM; THALLIUM WITH RELEASE TO AIR Permit Number: LP3433JA Original Permit Number: BL3781IX	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 30/11/2017 Status: DETERMINATION
D	71m NW	Operator: MINING AND CHEMICAL PRODUCTS LTD Installation Name: - Process: NON-FERROUS METALS; PRODUCING ETC LEAD & ALLOYS > 23 PERCENT LEAD (WITH COPPER) OR 2 PERCENT LEAD (WITHOUT) Permit Number: BL3781 Original Permit Number: BL3781	EPR Reference: - Issue Date: 26/11/2002 Effective Date: 26/11/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
D	71m NW	Operator: MINING AND CHEMICAL PRODUCTS LTD Installation Name: - Process: NON-FERROUS METALS; MANUFACTURING ETC BERYLLIUM/SELENIUM & ALLOY WITH RELEASE TO AIR (UNLESS 0.1 PERCENT BERYLLIUM AND 2.1 B (A) OR (D)) Permit Number: BL3781 Original Permit Number: BL3781	EPR Reference: - Issue Date: 26/11/2002 Effective Date: 26/11/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS



ID	Location	Details	
D	71m NW	Operator: MINING AND CHEMICAL PRODUCTS LTD Installation Name: - Process: NON-FERROUS METALS; REFINING (NOT ELECTRLYTIC COPPER) (UNLESS 2.2 A (2) (A) OR 2.2 B (A), (D) OR (E)) Permit Number: BL3781 Original Permit Number: BL3781	EPR Reference: - Issue Date: 26/11/2002 Effective Date: 26/11/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
D	71m NW	Operator: MINING AND CHEMICAL PRODUCTS LTD Installation Name: - Process: INORGANIC CHEMICALS; USING ETC OF ANTIMONY ETC (UNLESS OTHERRWISE PRESCRINED) (UNLESS GLAZING ETC) Permit Number: BL3781 Original Permit Number: BL3781	EPR Reference: - Issue Date: 26/11/2002 Effective Date: 26/11/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
D	71m NW	Operator: MINING AND CHEMICAL PRODUCTS LTD Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; SECTION 4.2 A(1) (A) WHERE = 100 TONNES PER ANNUM. AND ON SAME INSTALLATION AS A LARGER PLANT Permit Number: DP3538SG Original Permit Number: BL3781IX	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2005 Status: DETERMINATION
D	71m NW	Operator: Mining & Chemical Products Ltd Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: DP3538SG Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 13/07/2005 Effective Date: 13/07/2005 Last date noted as effective: 21/03/2023 Status: Superceded
D	71m NW	Operator: Mining & Chemical Products Ltd Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: RECOVERY OF GALLIUM; INDIUM; PALLADIUM; TELLURIUM; THALLIUM WITH RELEASE TO AIR Permit Number: DP3538SG Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 13/07/2005 Effective Date: 13/07/2005 Last date noted as effective: 21/03/2023 Status: Superceded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: RECOVERY OF GALLIUM; INDIUM; PALLADIUM; TELLURIUM; THALLIUM WITH RELEASE TO AIR Permit Number: BP3830TD Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 24/03/2010 Effective Date: 24/03/2010 Last date noted as effective: 21/03/2023 Status: Superceded



ID	Location	Details	
D	71m NW	Operator: 5N Plus UK Limited Installation Name: Mining & Chemical Products - EPR/BL3781IX Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: GP3333NE Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: Mining & Chemical Products - EPR/BL3781IX Process: INORGANIC CHEMICALS; NON METALS ETC EG CALCIUM CARBIDE Permit Number: GP3333NE Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: Mining & Chemical Products - EPR/BL3781IX Process: INORGANIC CHEMICALS; USING ETC OF ANTIMONY ETC (UNLESS OTHERWISE PRESCRIBED) (UNLESS GLAZING ETC) Permit Number: GP3333NE Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: Mining & Chemical Products - EPR/BL3781IX Process: NON-FERROUS METALS; MANUFACTURING ETC BERYLLIUM/SELENIUM AND ALLOY WITH RELEASE TO AIR (UNLESS 0.1 PERCENT BERYLLIUM AND 2.1 B (A) OR (D)) Permit Number: GP3333NE Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: NP3031FM Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 09/03/2012 Effective Date: 09/03/2012 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; NON METALS ETC EG CALCIUM CARBIDE Permit Number: NP3031FM Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 09/03/2012 Effective Date: 09/03/2012 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: RECOVERY OF GALLIUM; INDIUM; PALLADIUM; TELLURIUM; THALLIUM WITH RELEASE TO AIR Permit Number: NP3031FM Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 09/03/2012 Effective Date: 09/03/2012 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: BP3830TD Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 24/03/2010 Effective Date: 24/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; MANUFACTURING ETC BERYLLIUM/SELENIUM AND ALLOY WITH RELEASE TO AIR (UNLESS 0.1 PERCENT BERYLLIUM AND 2.1 B (A) OR (D)) Permit Number: BP3830TD Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 24/03/2010 Effective Date: 24/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: Mining & Chemical Products Ltd Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; REFINING (NOT ELECTRLYTIC COPPER) (UNLESS 2.2 A (2) (A) OR 2.2 B (A), (D) OR (E)) Permit Number: BL3781IX Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 26/11/2002 Effective Date: 26/11/2002 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; NON METALS ETC EG CALCIUM CARBIDE Permit Number: BP3830TD Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 24/03/2010 Effective Date: 24/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: Mining & Chemical Products - EPR/BL3781IX Process: ASSOCIATED PROCESS Permit Number: GP3333NE Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
D	71m NW	Operator: Mining & Chemical Products Ltd Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; MANUFACTURING ETC BERYLLIUM/SELENIUM AND ALLOY WITH RELEASE TO AIR (UNLESS 0.1 PERCENT BERYLLIUM AND 2.1 B (A) OR (D)) Permit Number: BL3781IX Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 26/11/2002 Effective Date: 26/11/2002 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: Mining & Chemical Products Ltd Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS > 23 PERCENT LEAD (WITH COPPER) OR 2 PERCENT LEAD (WITHOUT) Permit Number: BL3781IX Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 26/11/2002 Effective Date: 26/11/2002 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: Mining & Chemical Products Ltd Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; NON METALS ETC EG CALCIUM CARBIDE Permit Number: DP3538SG Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 13/07/2005 Effective Date: 13/07/2005 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: Mining & Chemical Products Ltd Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; USING ETC OF ANTIMONY ETC (UNLESS OTHERWISE PRESCRINED) (UNLESS GLAZING ETC) Permit Number: DP3538SG Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 13/07/2005 Effective Date: 13/07/2005 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; USING ETC OF ANTIMONY ETC (UNLESS OTHERWISE PRESCRINED) (UNLESS GLAZING ETC) Permit Number: BP3830TD Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 24/03/2010 Effective Date: 24/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: BP3830TD Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 24/03/2010 Effective Date: 24/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: Mining & Chemical Products - EPR/BL3781IX Process: RECOVERY OF GALLIUM; INDIUM; PALLADIUM; TELLURIUM; THALLIUM WITH RELEASE TO AIR Permit Number: GP3333NE Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: LP3433JA Original Permit Number: BL3781IX	EPR Reference: - Issue Date: - Effective Date: 23/10/2017 Last date noted as effective: 21/03/2023 Status: Surrender Effective
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: NP3031FM Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 09/03/2012 Effective Date: 09/03/2012 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: Mining & Chemical Products - EPR/BL3781IX Process: MANUFACTURING THE USE OF, OR THE USE OF ANTIMONY, ARSENIC, BERYLLIUM, GALLIUM, INDIUM, LEAD, PALLADIUM, PLATINUM, SELENIUM, TELLURIUM AND THALLIUM Permit Number: GP3333NE Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
D	71m NW	Operator: 5N Plus UK Limited Installation Name: Mining & Chemical Products - EPR/BL3781IX Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: GP3333NE Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; USING ETC OF ANTIMONY ETC (UNLESS OTHERWISE PRESCRIBED) (UNLESS GLAZING ETC) Permit Number: LP3433JA Original Permit Number: BL3781IX	EPR Reference: - Issue Date: - Effective Date: 23/10/2017 Last date noted as effective: 21/03/2023 Status: Surrender Effective
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: INORGANIC CHEMICALS; USING ETC OF ANTIMONY ETC (UNLESS OTHERWISE PRESCRIBED) (UNLESS GLAZING ETC) Permit Number: NP3031FM Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 09/03/2012 Effective Date: 09/03/2012 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: 5N Plus UK Limited Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; MANUFACTURING ETC BERYLLIUM/SELENIUM AND ALLOY WITH RELEASE TO AIR (UNLESS 0.1 PERCENT BERYLLIUM AND 2.1 B (A) OR (D)) Permit Number: NP3031FM Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 09/03/2012 Effective Date: 09/03/2012 Last date noted as effective: 21/03/2023 Status: Superseded
D	71m NW	Operator: Mining & Chemical Products Ltd Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; MANUFACTURING ETC BERYLLIUM/SELENIUM AND ALLOY WITH RELEASE TO AIR (UNLESS 0.1 PERCENT BERYLLIUM AND 2.1 B (A) OR (D)) Permit Number: DP3538SG Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 13/07/2005 Effective Date: 13/07/2005 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
D	71m NW	Operator: Mining & Chemical Products Ltd Installation Name: MINING AND CHEMICAL PRODUCTS LTD Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: DP3538SG Original Permit Number: BL3781IX	EPR Reference: - Issue Date: 13/07/2005 Effective Date: 13/07/2005 Last date noted as effective: 21/03/2023 Status: Superseded
C	72m SW	Operator: HOVIS LIMITED Installation Name: Finedon Mill, Wellingborough EPR/RP3931VA Process: ANIMAL VEGETABLE AND FOOD TREATING ETC VEGETABLE Permit Number: RP3931VA Original Permit Number: RP3931VA	EPR Reference: EPR/RP3931VA Issue Date: 31/07/2014 Effective Date: 31/07/2014 Last date noted as effective: 07/01/2026 Status: Effective
C	72m SW	Operator: HOVIS LIMITED Installation Name: Finedon Mill, Wellingborough EPR/RP3931VA Process: ASSOCIATED PROCESS Permit Number: RP3931VA Original Permit Number: RP3931VA	EPR Reference: EPR/RP3931VA Issue Date: 31/07/2014 Effective Date: 31/07/2014 Last date noted as effective: 08/11/2023 Status: Effective
C	72m SW	Operator: HOVIS LIMITED Installation Name: Finedon Mill, Wellingborough EPR/RP3931VA Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: RP3931VA Original Permit Number: RP3931VA	EPR Reference: EPR/RP3931VA Issue Date: 31/07/2014 Effective Date: 31/07/2014 Last date noted as effective: 07/01/2026 Status: Effective

This data is sourced from the Environment Agency and Natural Resources Wales.

4.12 Licensed pollutant release (Part A(2)/B)

Records within 500m

17

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 55 >](#)

ID	Location	Address	Details	
A	On site	Univar Limited (formerly Ellis & Everard UK Ltd), Links Road, F.R.I.E., Wellingborough, NN8 4EY	Process: Halogen Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



ID	Location	Address	Details	
D	128m NW	Dbs Ltd, Victoria Road, Wellingborough, NN9 5JD	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
I	166m W	Msi Oilfield Products, Allen House, Wellingborough, NN8 4BZ	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
J	173m SE	Harcros Timber, 5-11 Meadow Close, Wellingborough, NN8 4BH	Process: Timber Manufacture Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
M	248m S	Bushboard Ltd, Rixon Road, Finedon Road Industrial Estate, Wellingborough, NN8 4BA	Process: Timber Manufacture Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
M	248m S	Castline Limited, Rixon Road, F.R.I.E., Wellingborough, Northants, NN8 4BA	Process: Timber Manufacture Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
16	274m SW	Hanson Heidelberg Cement Group, Sanders Road, Finedon Road Industrial Estate, Wellingborough, NN8 4UT	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
N	281m SW	Aggregate Industries, Sanders Road, Finedon Road Industrial Estate, Wellingborough, NN8 4NL	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
N	281m SW	Bardon Concrete Limited, Sanders Road, F.R.I.E., Wellingborough, NN8 4NL	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
17	283m E	Bonham Lilley Timber, 10-14 Meadow Close, Ise Valley Industrial Estate, Wellingborough, NN8 4BH	Process: Timber Manufacture Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



ID	Location	Address	Details	
19	291m E	Blake Performance Fabrics, Meadow Close, Wellingborough, NN8 4BH	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
O	313m W	Sanders Garage, 3 Sanders Close, Finedon Road Industrial Estate, Wellingborough, NN8 4HQ	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
21	339m SW	Allen (Concrete) Limited, 35-37 Rixon Road, Finedon Road Industrial Estate, Wellingborough, NN8 4BH	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
S	437m W	Gardiner Motors, Stewarts Road, Finedon Road Industrial Estate, Wellingborough, NN8 4RJ	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
R	441m S	Shell Wellingborough, Finedon Road, Wellingborough, NN8 4AL	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
S	443m W	E Wards, 58-62 Stewarts Road, Finedon Ind. Estate, Wellingborough, NN8 4RJ	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
27	449m W	Hartigan Readymix Ltd, Sanders Road, F.R.I.E., Wellingborough, NN8 4BX	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.



4.13 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Licensed Discharges to controlled waters

Records within 500m

15

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on [page 55](#) >

ID	Location	Address	Details	
B	On site	OLD RAILWAY PREMES, NEILSON ROAD, FINEDON RD IND ESTATE, RUSHDEN	Effluent Type: UNSPECIFIED Permit Number: PR5LF5125 Permit Version: 1 Receiving Water: land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 05/02/1986 Effective Date: 05/02/1986 Revocation Date: 01/10/1996
C	89m SW	FINEDON RD IND. EST, FINEDON RD, FINEDON ROAD INDUSTRIA, WELLINGBOROUGH, NN8	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: PR5NF5059 Permit Version: 1 Receiving Water: Harrowden Brook	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 30/08/1985 Effective Date: 30/08/1985 Revocation Date: 26/02/1992
6	116m S	IRONWORKS IND. EST., FINEDON ROAD INDUSTRIA, WELLINGBOROUGH, NN8	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: AW5NF293 Permit Version: 1 Receiving Water: Harrowden Brook	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 24/06/1965 Effective Date: 24/06/1965 Revocation Date: -
F	118m S	RIXON RD, FINEDON ROAD IND. EST., WELLINGBOROUGH, NN8 4BB	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR5NF5058 Permit Version: 1 Receiving Water: Harrowden Brook	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 04/07/1985 Effective Date: 04/07/1985 Revocation Date: 01/07/1991
9	157m SW	FINEDON ROAD IND EST, FINEDON ROAD, FINEDON ROAD INDUSTRIA, WELLINGBOROUGH, NN8	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: AW5NF466 Permit Version: 1 Receiving Water: Harrowden Brook	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 12/05/1969 Effective Date: 12/05/1969 Revocation Date: -



ID	Location	Address	Details	
J	176m E	CENTRAL BATCHING PLANT, FINEDON ROAD, WELLINGBOROUGH	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: PR5LF3047 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 29/03/1967 Effective Date: 29/03/1967 Revocation Date: 26/02/1992
L	238m E	RICHARDSON BURDETT, ISLE VALLEY IND EST, WELLINGBOROUGH	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PRNNF04253 Permit Version: 1 Receiving Water: Harrowden Brook	Status: REVOKED - UNSPECIFIED Issue date: 09/04/1991 Effective Date: 09/04/1991 Revocation Date: 30/09/2014
L	244m E	FINEDON RD IND ESTATE, WELLINGBOROUGH, NORTHANTS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PRNNF00349 Permit Version: 1 Receiving Water: Harrowden Brook	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 15/12/1988 Effective Date: 15/12/1988 Revocation Date: -
N	248m SW	FINEDON ROAD IND. EST, WELLINGBOROUGH	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR5NF5057 Permit Version: 1 Receiving Water: Harrowden Brook	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 04/07/1985 Effective Date: 04/07/1985 Revocation Date: -
N	264m W	WELLINGBOROUGH 40 SWS, PATTERSON ROAD, WELLINGBOROUGH, NN8 4SR	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: AW5NF1218 Permit Version: 1 Receiving Water: Trib River Ise	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 19/09/1984 Effective Date: 19/09/1984 Revocation Date: -
P	323m W	GARDINER MOTORS LTD, STEWARTS ROAD, WELLINGBOROUGH, NN8 4RJ	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR5NF5139 Permit Version: 1 Receiving Water: trib River Ise	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 14/03/1986 Effective Date: 14/03/1986 Revocation Date: -
20	327m W	FINEDON ROAD IND EST, (PHASE IV)	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: AW5NF650 Permit Version: 1 Receiving Water: Trib Harrowden Brook	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 03/09/1975 Effective Date: 03/09/1975 Revocation Date: -



ID	Location	Address	Details	
P	335m W	STEWARTS ROAD, FINEDON ROAD INDUSTRIAL ESTATE, WELLINGBOROUGH	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PRNNF01280 Permit Version: 1 Receiving Water: Harrowden Brook	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 20/07/1989 Effective Date: 20/07/1989 Revocation Date: -
24	380m E	MEADOW CLOSE, ISE VALLEY INDUSTRIAL ESTATE, WELLINGBOROUGH, NORTHANTS, NN8 4BH	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PRNNF04630 Permit Version: 1 Receiving Water: River Ise	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/11/1991 Effective Date: 15/11/1991 Revocation Date: -
Q	414m E	FINEDON ROAD IND EST, FINEDON ROAD, WELLINGBOROUGH, NORTHANTS, NN8 4BH	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: AW5NF698 Permit Version: 1 Receiving Water: River Ise	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 22/12/1980 Effective Date: 22/12/1980 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to surface waters (Red List)

Records within 500m	0
----------------------------	----------

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 Pollutant release to public sewer

Records within 500m	1
----------------------------	----------

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on [page 55](#) >

ID	Location	Address	Details	
E	86m N	GALLY LIMITED. PATERSON ROAD, FINEDON ROAD IND EST, FINEDON ROAD IND EST, WELLINGBOROUGH, NORTHAMPTONSHIRE	Permission reference: SCE0080C2 Local Authority: WELLINGBOROUGH BOROUGH COUNCIL First received date: 01/01/2015	Last received date: 08/10/2016 Status: EFFECTIVE

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 1 Dangerous Substances

Records within 500m

2

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on [page 55 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
D	70m NW	Mining & Chemical Products Limited	Active	Na	Mercury (other), Cadmium
D	70m NW	Mining & Chemical Products Limited	Active	-	Mercury (other), Cadmium

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 List 2 Dangerous Substances

Records within 500m

8

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on [page 55 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
C	41m S	Rank Hovis Limited	Not Active	Na	pH
G	186m W	Bantex Ltd	Active	Na	pH
10	191m S	Bushboard Limited	Not Active	Na	pH
13	228m SW	B-trac	Not Active	Na	pH
N	257m SW	Tnt Newsfast/taylor Barnard Ltd	Not Active	Na	pH
18	287m S	The Petrol Filling Station	Not Active	Na	pH
O	306m W	Tingdene Homes Ltd	Not Active	Na	pH
23	357m W	Derek Jones Commercials Ltd	Not Active	Na	pH

This data is sourced from the Environment Agency and Natural Resources Wales.



4.19 Pollution Incidents (EA/NRW)

Records within 500m

17

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on [page 55](#) >

ID	Location	Details	
3	33m N	Incident Date: 05/10/2001 Incident Identification: 34822 Pollutant: Oils and Fuel Pollutant Description: Lubricating Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
C	60m SW	Incident Date: 14/11/2005 Incident Identification: 360127 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
C	98m S	Incident Date: 16/01/2002 Incident Identification: 52857 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	116m N	Incident Date: 15/10/2001 Incident Identification: 36862 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	147m W	Incident Date: 03/06/2013 Incident Identification: 1118394 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
8	156m NW	Incident Date: 25/09/2013 Incident Identification: 1162027 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
F	160m SW	Incident Date: 30/03/2004 Incident Identification: 226444 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
E	165m N	Incident Date: 05/07/2019 Incident Identification: 1715962 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
12	208m NW	Incident Date: 24/02/2025 Incident Identification: 2361018 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
15	258m NW	Incident Date: 02/03/2022 Incident Identification: 2036345 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
N	261m SW	Incident Date: 23/11/2001 Incident Identification: 45550 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	323m W	Incident Date: 11/03/2002 Incident Identification: 63194 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
22	355m W	Incident Date: 02/05/2003 Incident Identification: 155571 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	397m E	Incident Date: 08/11/2001 Incident Identification: 41808 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
25	429m S	Incident Date: 31/10/2001 Incident Identification: 40388 Pollutant: Contaminated Water Pollutant Description: Vehicle and Plant Washings	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
26	438m S	Incident Date: 15/02/2015 Incident Identification: 1313965 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
28	486m NW	Incident Date: 02/07/2001 Incident Identification: 12981 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.



4.20 Pollution inventory substances

Records within 500m

1

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on [page 55 >](#)

ID: C, Location: 72m SW, Permit: RP3931VA
 Operator: Hovis Limited
 Activity: Animal vegetable and food treating etc vegetable
 Address: Finedon Mill, Wellingborough 5 Bevan Close Finedon Road Industrial Estate Northamptonshire NN8 5BL
 Sector: Food & Drink, Sub-sector: Food & Drink
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Particulate matter - PM10	1000kg	Below Reporting Threshold
Air	Particulate matter - PM2.5	1000kg	Below Reporting Threshold
Air	Particulate matter - total	10000kg	Below Reporting Threshold
Air	Benzo(b)fluoranthene	1kg	Below Reporting Threshold

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory waste transfers

Records within 500m

1

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on [page 55 >](#)

ID: C, Location: 72m SW, Permit: RP3931VA
 Operator: Hovis Limited
 Activity: Animal vegetable and food treating etc vegetable
 Address: Finedon Mill, Wellingborough 5 Bevan Close Finedon Road Industrial Estate Northamptonshire NN8 5BL
 Sector: Food & Drink, Sub-sector: Food & Drink



Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R1	Use principally as a fuel or other means to generate energy	18.29	Absolute Value	20 03 01	mixed municipal waste	No
R4	Recycling/reclamation of metals and metal compounds	2.5	Absolute Value	20 01 40	metals	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	71.1	Absolute Value	15 01 01	paper and cardboard packaging	No
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.304	Absolute Value	20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	No
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	1.235	Absolute Value	11 01 14	degreasing wastes other than those mentioned in 11 01 13	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	71.1	Absolute Value	02 03 04	materials unsuitable for consumption or processing	No
R9	Oil e-refining or other reuses of oil	1.293	Absolute Value	13 05 08	mixtures of wastes from grit chambers and oil/water separators	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.3	Absolute Value	20 01 35	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (6)	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	5	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	Yes

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



4.22 Pollution inventory radioactive waste

Records within 500m

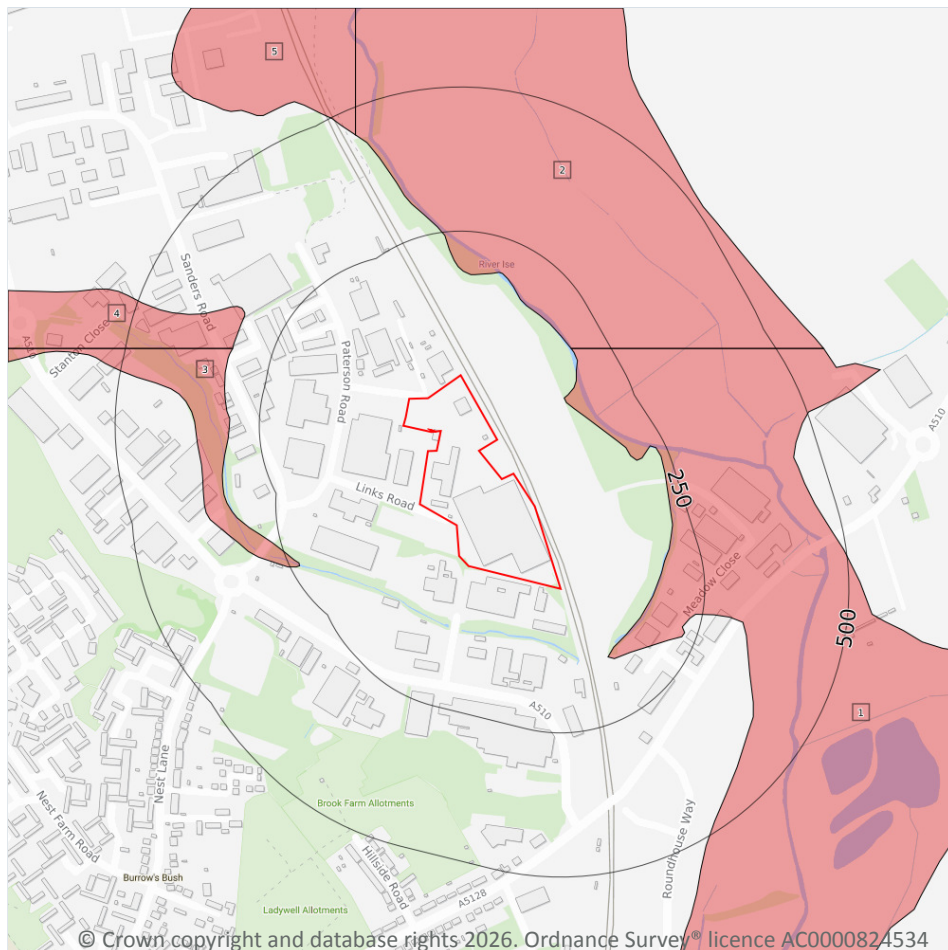
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 85](#) >

ID	Location	Designation	Description
1	136m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	166m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

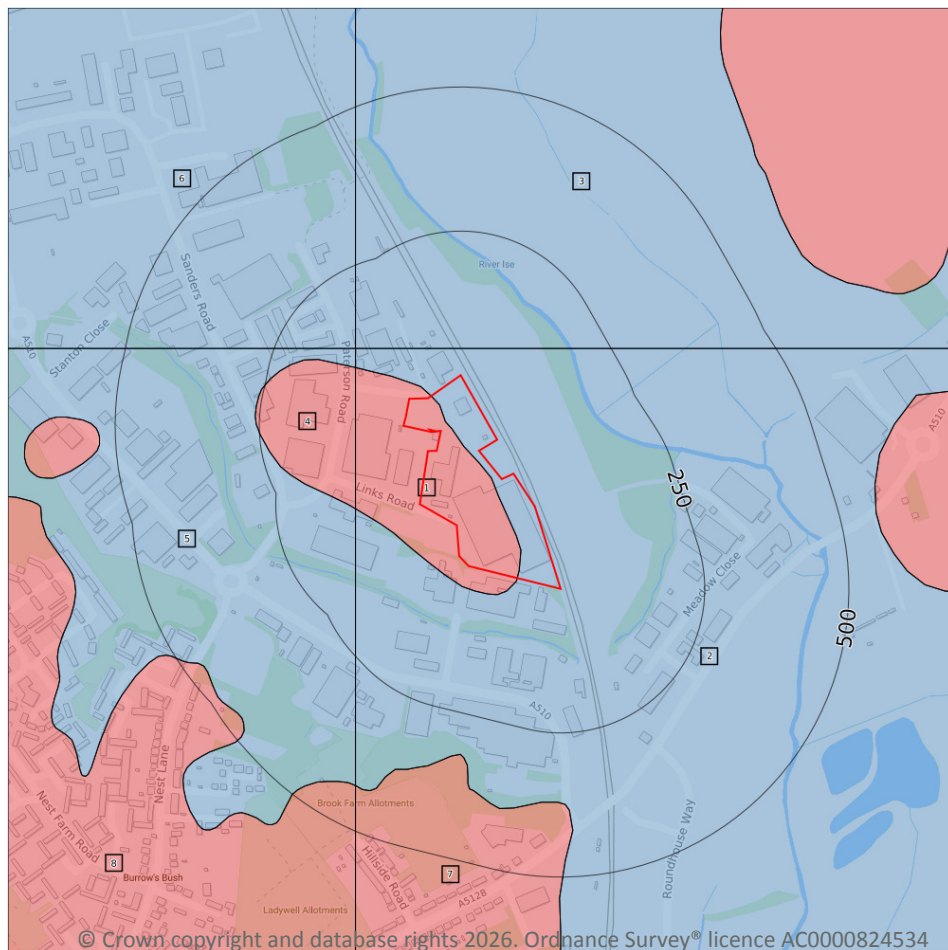


ID	Location	Designation	Description
3	233m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	318m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	455m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m

8

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 87](#) >

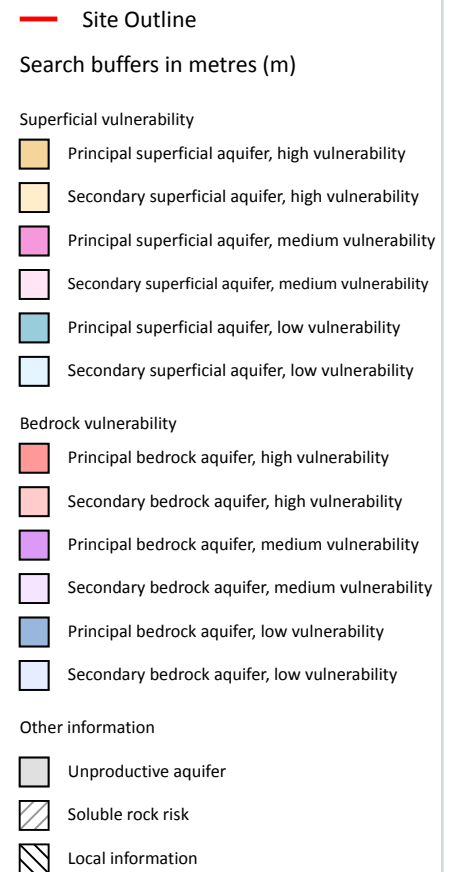
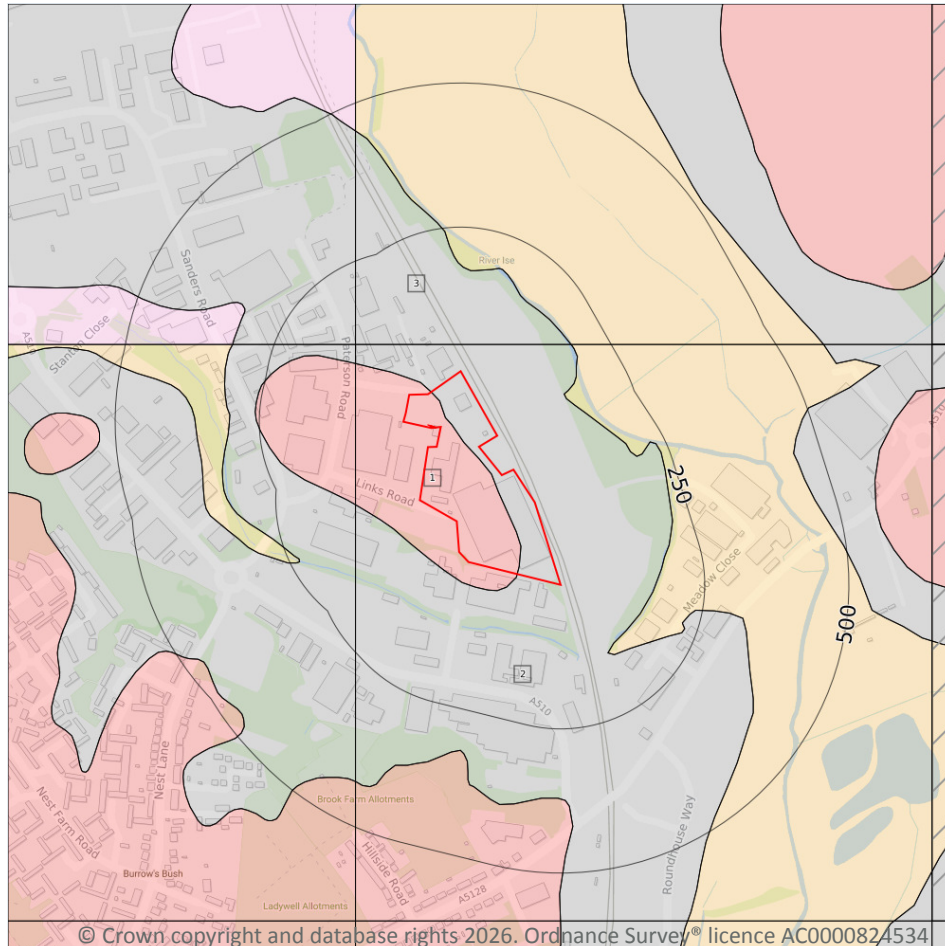
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow



ID	Location	Designation	Description
3	47m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	83m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	108m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
6	128m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	320m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
8	428m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

3

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 89](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
3	47m N	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site

0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.



Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.7 Surface water abstractions

Records within 2000m

2

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 91](#) >

ID	Location	Details	
-	1766m NW	Status: Historical Licence No: 5/32/06/*S/0088 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: GT HARROWDEN BROOK Data Type: Point Name: HARROWDEN FARMS LTD Easting: 489260 Northing: 271470	Annual Volume (m ³): 50007 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 01/01/1977 Expiry Date: - Issue No: 101 Version Start Date: 22/08/2003 Version End Date: -
-	1774m NW	Status: Historical Licence No: 5/32/06/*S/0088 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: GT HARROWDEN BROOK Data Type: Point Name: HARROWDEN FARMS LTD Easting: 489300 Northing: 271500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/01/1977 Expiry Date: - Issue No: 100 Version Start Date: 01/02/1989 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m

0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.9 Source Protection Zones

Records within 500m**0**

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m**0**

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m

10

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on [page 94](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
B	95m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Harrowden Brook



ID	Location	Type of water feature	Ground level	Permanence	Name
C	110m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Harrowden Brook
4	111m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Harrowden Brook
D	128m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	128m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Harrowden Brook
6	133m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Harrowden Brook
8	168m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ise
9	174m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ise
A	174m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	222m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey®.

6.2 Surface water features

Records within 250m

4

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on [page 94 >](#)

This data is sourced from the Ordnance Survey®.



6.3 WFD Surface water body catchments

Records on site

2

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on [page 94](#) >

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Harrowden Brook (Nene)	GB105032045080	Ise	Nene
A	On site	River	Ise - Lower	GB105032045140	Ise	Nene

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified

2

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on [page 94](#) >

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	106m S	River	Harrowden Brook (Nene)	GB105032045080 ↗	Bad	Fail	Bad	2019
7	164m NE	River	Ise - Lower	GB105032045140 ↗	Poor	Fail	Poor	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



6.5 WFD Groundwater bodies

Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

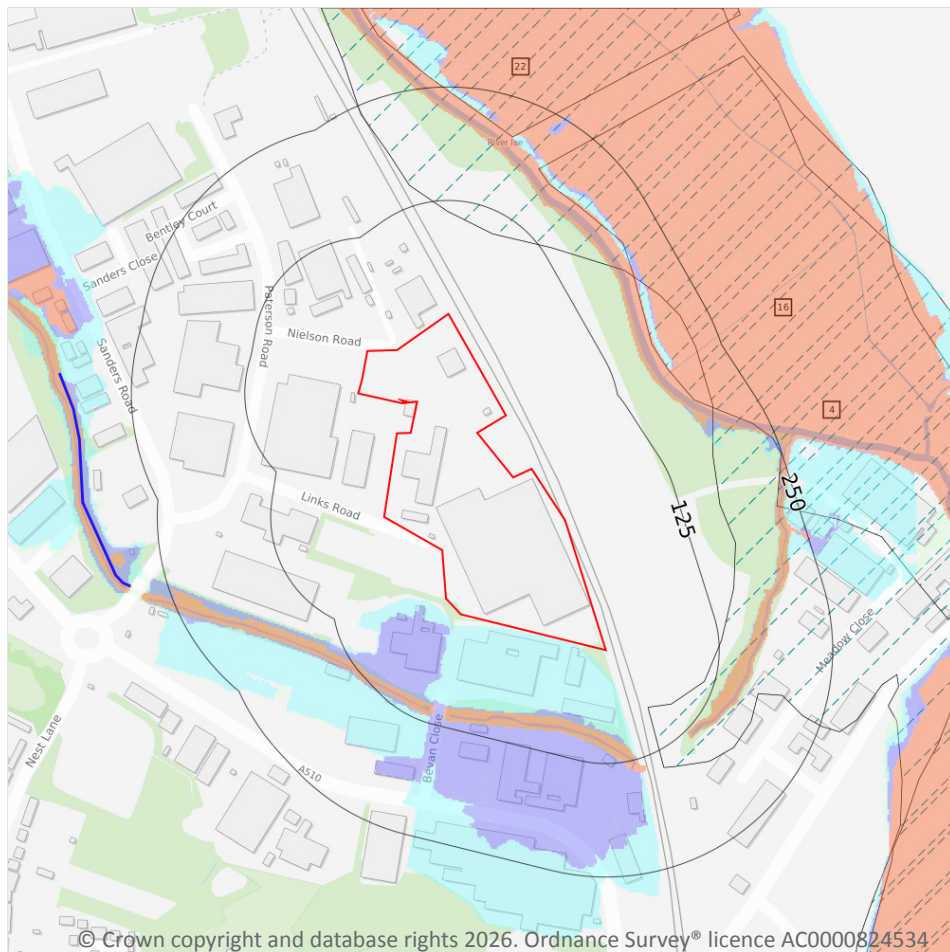
Features are displayed on the Hydrology map on [page 94](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Nene Mid Lower Jurassic Unit	GB40502G402400 ↗	Good	Good	Good	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

5

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on [page 98](#) >



Distance	Flood risk category
On site	Low
0 - 50m	Medium

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	3
----------------------------	----------

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on [page 98 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
4	78m SE	Lna_1947_March_River Nene_D/s Northampton	1947-03-16 1947-03-18	Main river	Operational failure/breach of defence	Fluvial
16	179m NE	Lna_1998_April_River Ise	1998-04-09 1998-04-11	Main river	Channel capacity exceeded (no raised defences)	Fluvial
22	208m N	Lna_1998_April_River Ise	1998-04-09 1998-04-11	Main river	Channel capacity exceeded (no raised defences)	Fluvial

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	0
----------------------------	----------

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on [page 98 >](#)

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

This data is sourced from the Environment Agency and Natural Resources Wales.



7.7 Flood Zone 3

Records within 50m

1

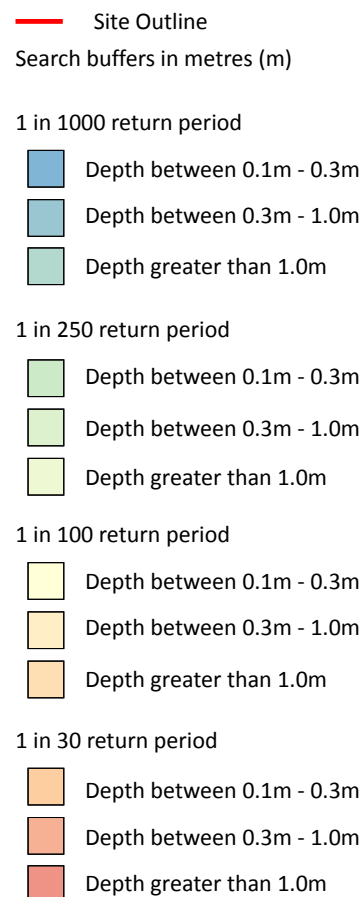
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on [page 98](#) >

Location	Type
16m SW	Zone 3 - (Fluvial /Tidal Models)

This data is sourced from the Environment Agency and Natural Resources Wales.

8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 year, 0.1m - 0.3m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on [page 103 >](#)

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

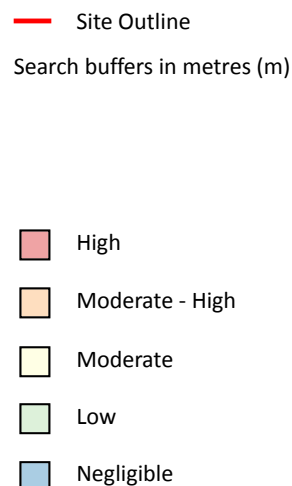
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

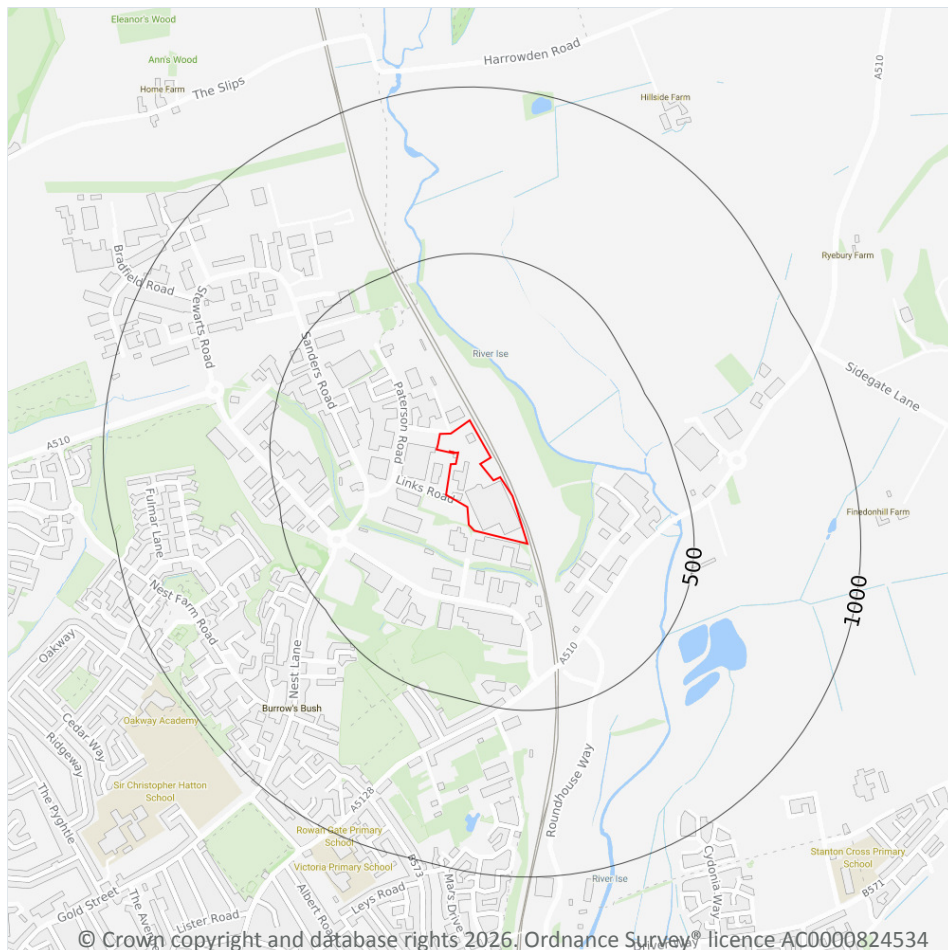
Negligible

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on [page 105 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m**1**

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on [page 106 >](#)

ID	Location	Name	Data source
-	1868m SW	Glamis Meadow And Wood	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m**0**

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m**0**

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m**0**

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m**0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**3**

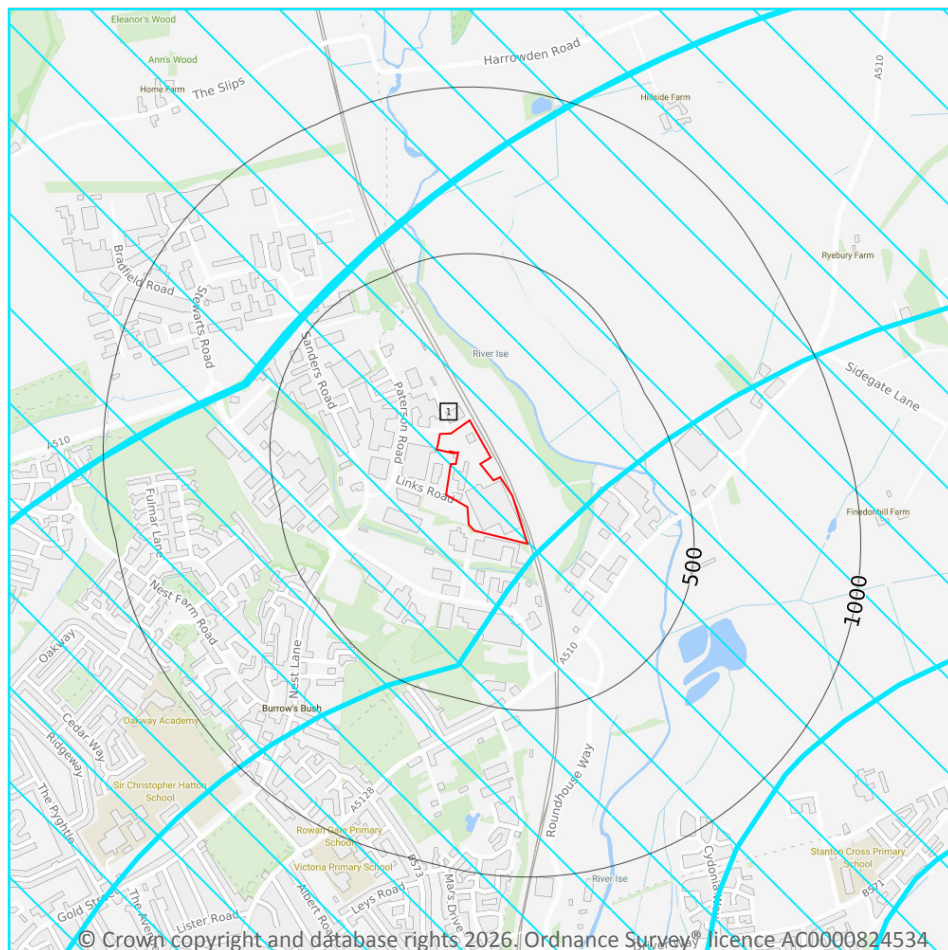
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	River Nene NVZ	Surface Water	382	Existing
On site	Northampton Sands	Groundwater	165	Existing
On site	Thrapstone lake Eutrophic lake NVZ	Eutrophic Water	148	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on [page 111](#) >

ID	Location	Type of developments requiring consultation
1	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0111322432040&notes=11401&location=486421,265878%20(IRZ%20polygon%20centre)

This data is sourced from Natural England.



10.18 SSSI Units

Records within 2000m

0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

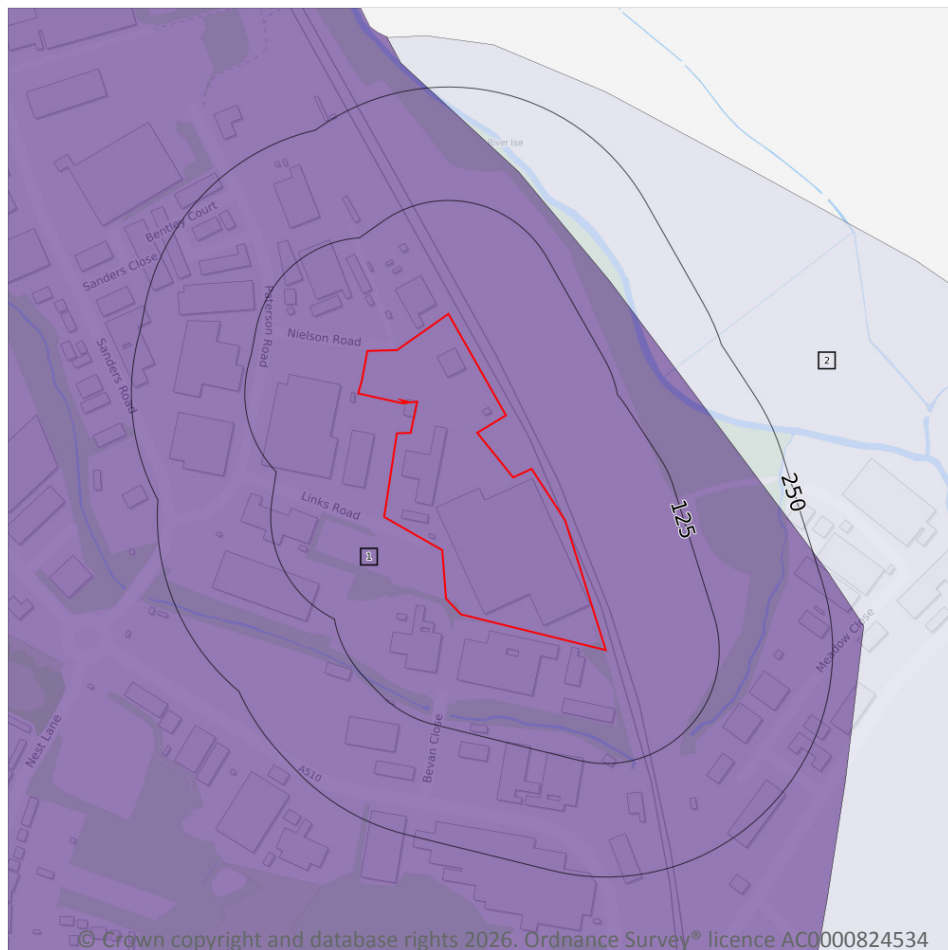
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

2

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on [page 115](#) >

ID	Location	Classification	Description
1	On site	Urban	Non-agricultural/no quality assigned

ID	Location	Classification	Description
2	160m NE	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

6

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on [page 118](#) >

ID	Location	Main Habitat	Other habitats
A	85m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	98m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
1	118m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	118m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
3	217m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	239m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

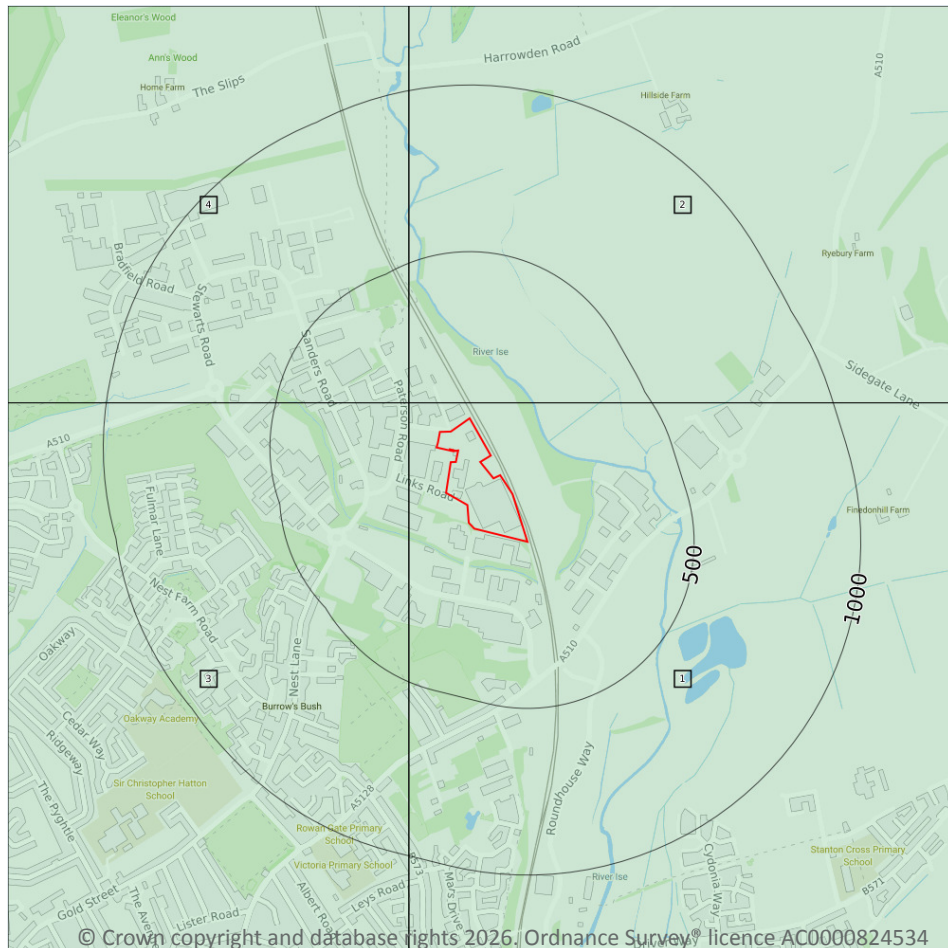
0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

4

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 120](#) >

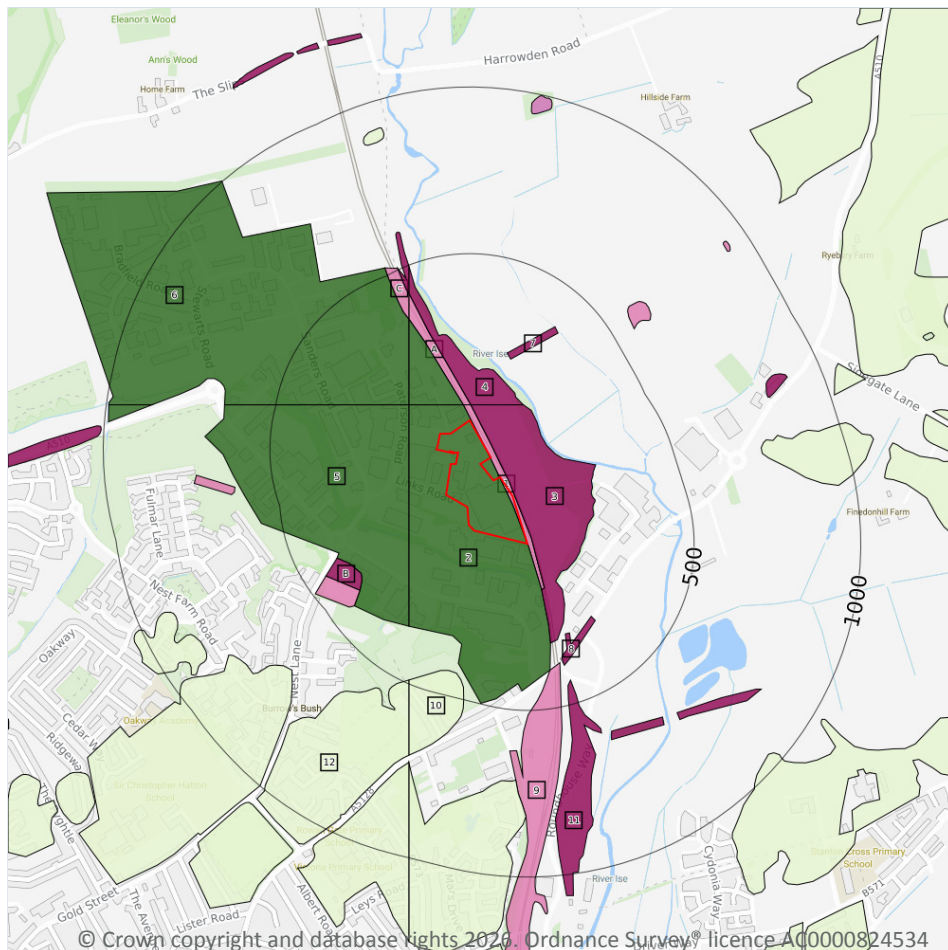
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SP96NW
2	47m N	Full	Full	Full	No coverage	SP97SW
3	83m W	Full	Full	Full	No coverage	SP86NE
4	128m NW	Full	Full	Full	No coverage	SP87SE



This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



- Site Outline**
- Search buffers in metres (m)**
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

18

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 122](#) >

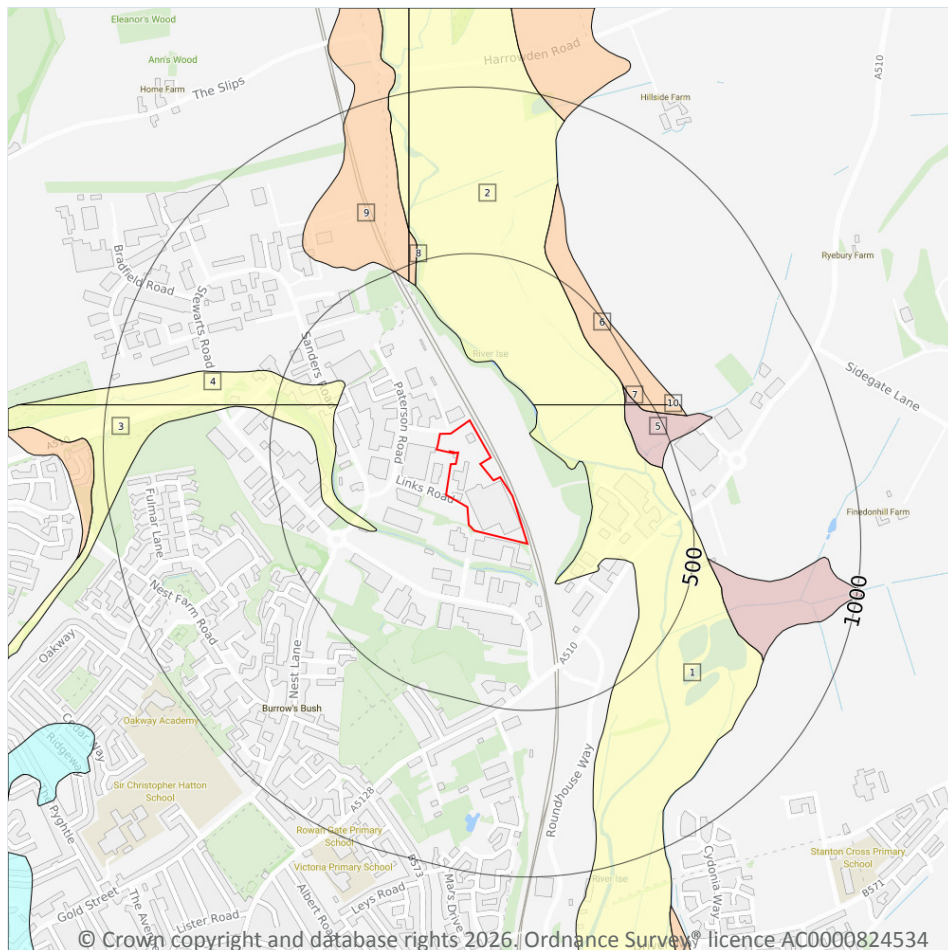
ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	Worked Ground (Undivided)	Void
2	On site	LSGR-ARTGR	Landscaped Ground (Undivided)	Artificially modified ground
3	6m E	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
A	47m N	WGR-VOID	Worked Ground (Undivided)	Void



ID	Location	LEX Code	Description	Rock description
4	47m N	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
A	50m N	LSGR-ARTGR	Landscaped Ground (Undivided)	Artificially modified ground
5	83m W	LSGR-ARTGR	Landscaped Ground (Undivided)	Artificially modified ground
6	128m NW	LSGR-ARTGR	Landscaped Ground (Undivided)	Artificially modified ground
7	221m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
8	290m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
B	347m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
C	355m NW	WGR-VOID	Worked Ground (Undivided)	Void
9	370m S	WGR-VOID	Worked Ground (Undivided)	Void
B	381m SW	WGR-VOID	Worked Ground (Undivided)	Void
C	423m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
10	426m S	WMGR-ARTDP	Infilled Ground	Artificial deposit
11	429m S	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
12	489m SW	WMGR-ARTDP	Infilled Ground	Artificial deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

10

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 124 >](#)

ID	Location	LEX Code	Description	Rock description
1	137m SE	ALV-XCZ	Alluvium-Clay And Silt	Clay and silt
2	166m NE	ALV-XCZ	Alluvium-Clay And Silt	Clay and silt
3	233m SW	ALV-XCZ	Alluvium-Clay And Silt	Clay and silt
4	318m W	ALV-XCZ	Alluvium-Clay And Silt	Clay and silt



ID	Location	LEX Code	Description	Rock description
5	398m E	HEAD-XVSZ	Head-Gravel, Sand And Silt	Gravel, sand and silt
6	424m NE	ECTN-XSV	Ecton Member-Sand And Gravel	Sand and gravel
7	431m NE	HEAD-XVSZ	Head-Gravel, Sand And Silt	Gravel, sand and silt
8	435m N	ECTN-XSV	Ecton Member-Sand And Gravel	Sand and gravel
9	455m NW	ECTN-XSV	Ecton Member-Sand And Gravel	Sand and gravel
10	465m NE	ECTN-XSV	Ecton Member-Sand And Gravel	Sand and gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

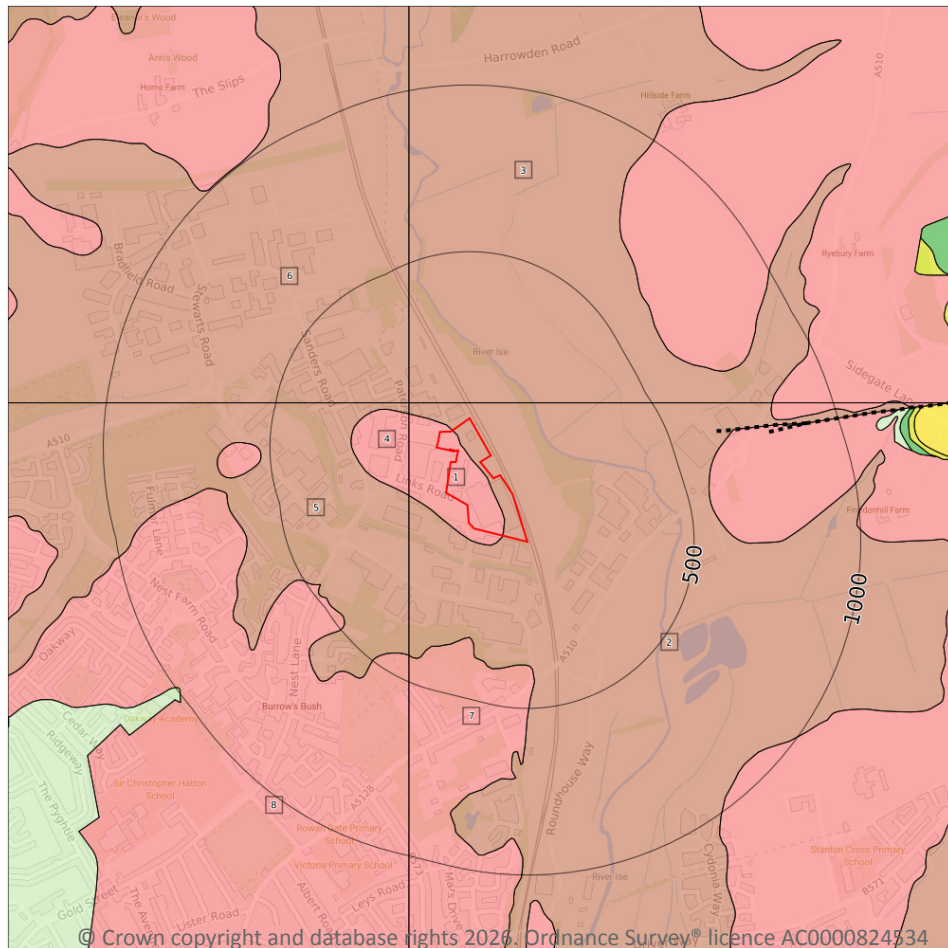
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

8

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 126 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	NS-FEOL	Northampton Sand Formation-Ooid-Ironstone	Aalenian
2	On site	WHM-MDST	Whitby Mudstone Formation-Mudstone	Toarcian
3	47m N	WHM-MDST	Whitby Mudstone Formation-Mudstone	Toarcian

ID	Location	LEX Code	Description	Rock age
4	83m W	NS-FEOL	Northampton Sand Formation-Ooid-Ironstone	Aalenian
5	108m NW	WHM-MDST	Whitby Mudstone Formation-Mudstone	Toarcian
6	128m NW	WHM-MDST	Whitby Mudstone Formation-Mudstone	Toarcian
7	320m S	NS-FEOL	Northampton Sand Formation-Ooid-Ironstone	Aalenian
8	428m SW	NS-FEOL	Northampton Sand Formation-Ooid-Ironstone	Aalenian

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

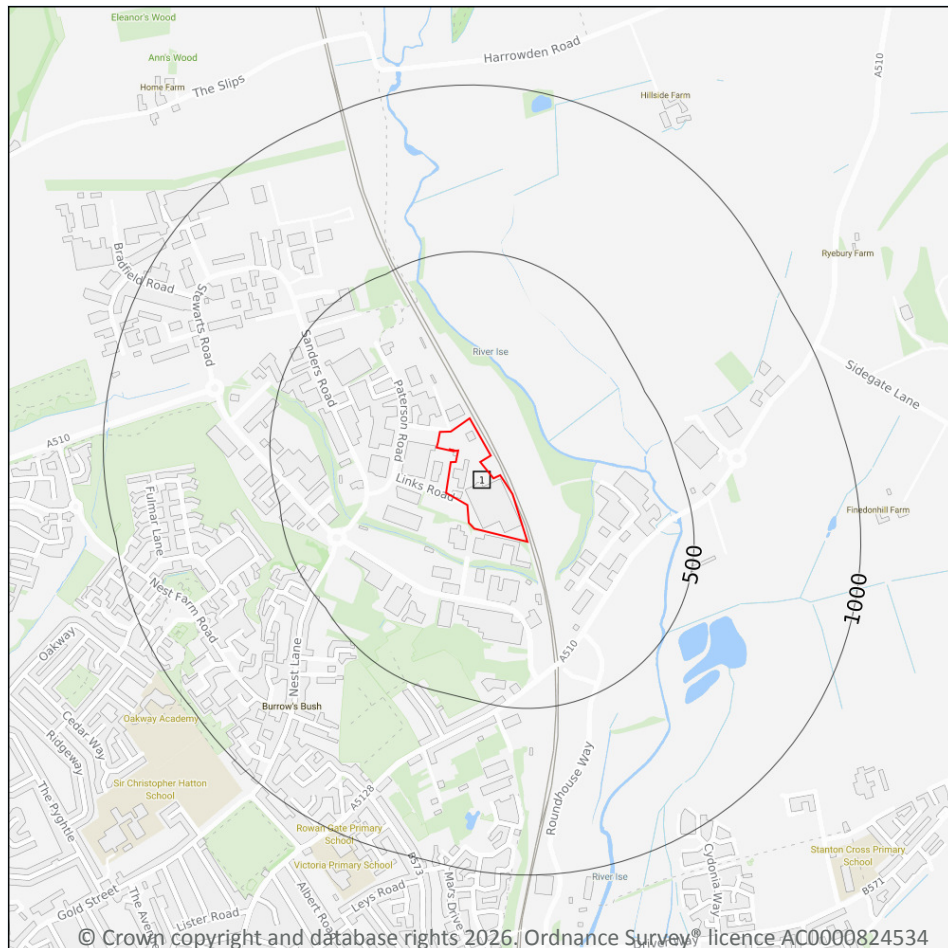
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

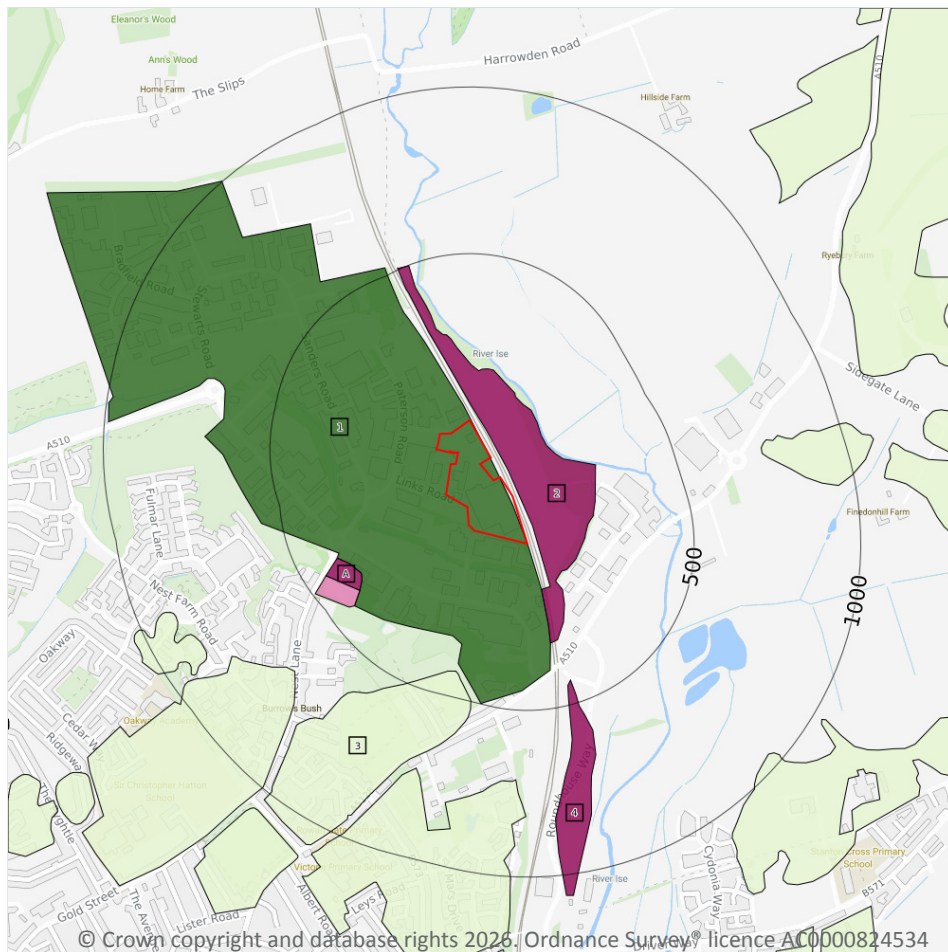
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 128](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW186_wellingborough_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



- Site Outline**
- Search buffers in metres (m)**
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

6

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 129](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	LSGR-ARTGR	Landscaped Ground	Artificially modified ground
2	19m NE	MGR-ARTDP	Made Ground	Artificial deposit
A	346m SW	MGR-ARTDP	Made Ground	Artificial deposit
A	382m SW	WGR-VOID	Worked Ground	Void



ID	Location	LEX Code	Description	Rock description
3	423m S	WMGR-ARTDP	Infilled Ground	Artificial deposit
4	429m S	MGR-ARTDP	Made Ground	Artificial deposit

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

3

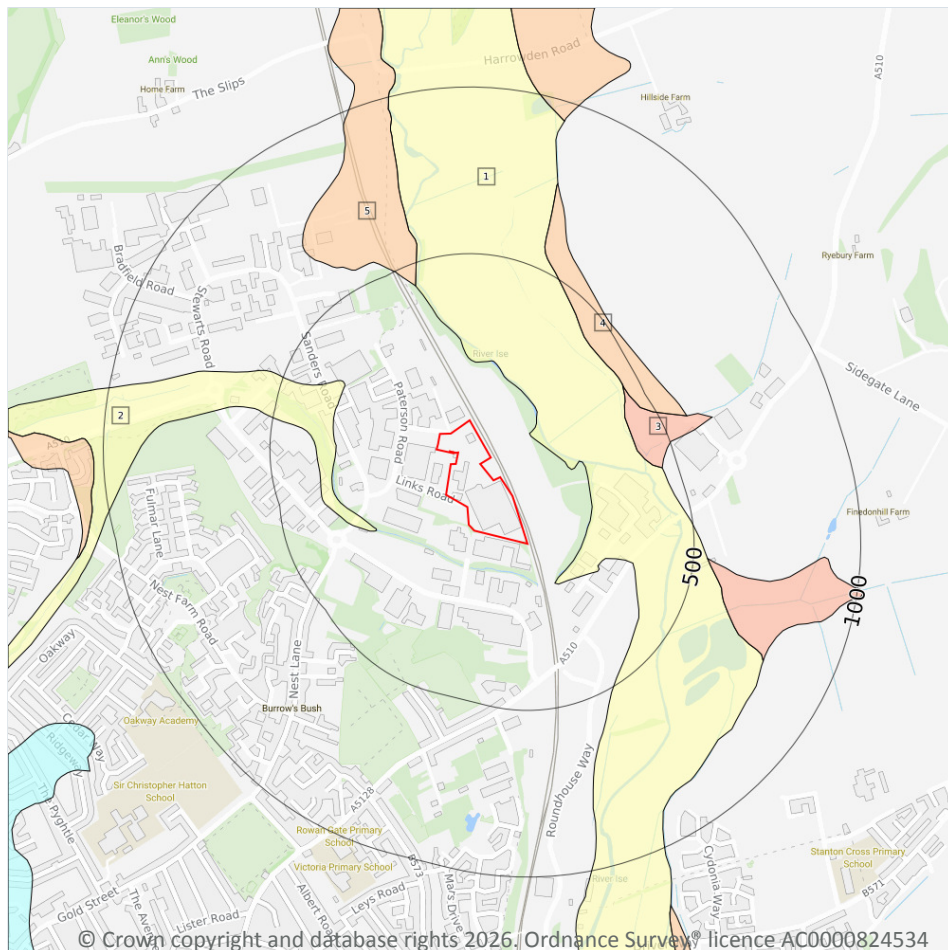
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low
19m NE	Mixed	Very High	Low
47m N	Mixed	Very High	Low

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

5

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 131](#) >

ID	Location	LEX Code	Description	Rock description
1	136m NE	ALV-XCZ	Alluvium	Clay and silt
2	233m SW	ALV-XCZ	Alluvium	Clay and silt
3	398m E	ALF-XCZSV	Alluvial fan deposits	Clay, silt, sand and gravel
4	425m NE	ECTN-XSV	Ecton Member	Sand and gravel



ID	Location	LEX Code	Description	Rock description
5	435m N	ECTN-XSV	Ecton Member	Sand and gravel

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

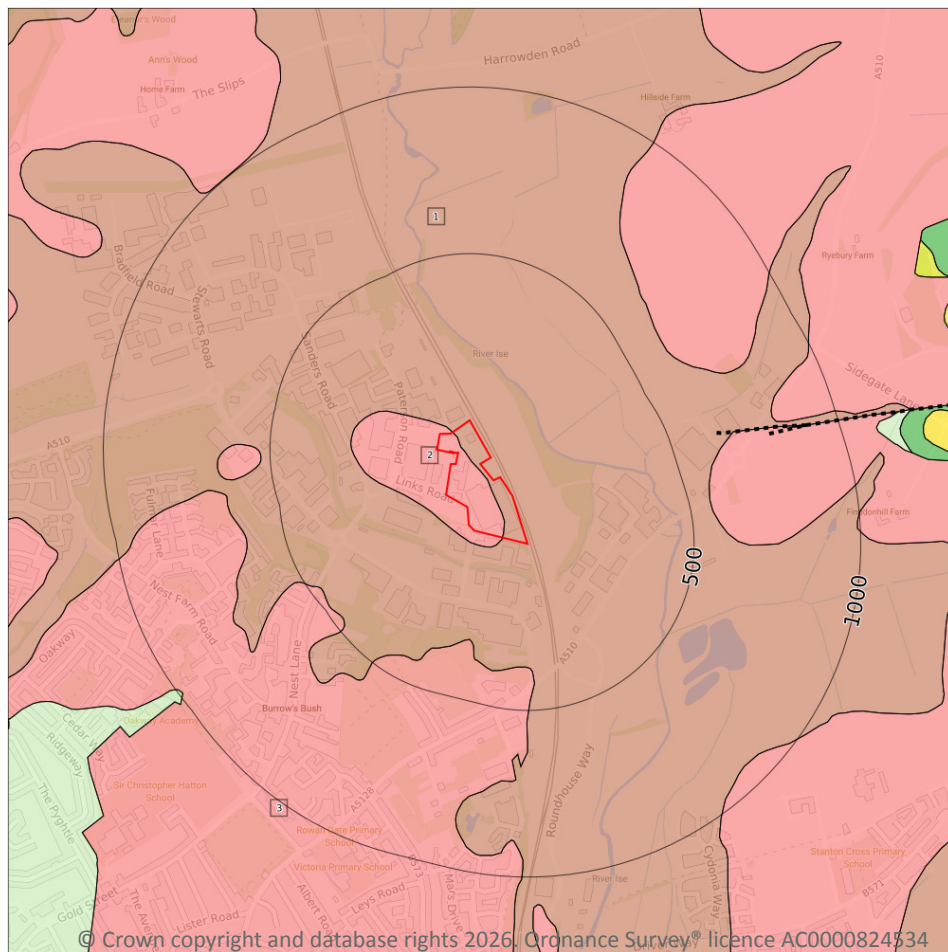
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

3

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 133](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	WHM-MDST	Whitby Mudstone Formation-Mudstone	Toarcian
2	On site	NS-FEOL	Northampton Sand Formation-Ooid-ironstone	Aalenian
3	320m S	NS-FEOL	Northampton Sand Formation-Ooid-ironstone	Aalenian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

3

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Low	Low
On site	Mixed	Moderate	Moderate
46m N	Fracture	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

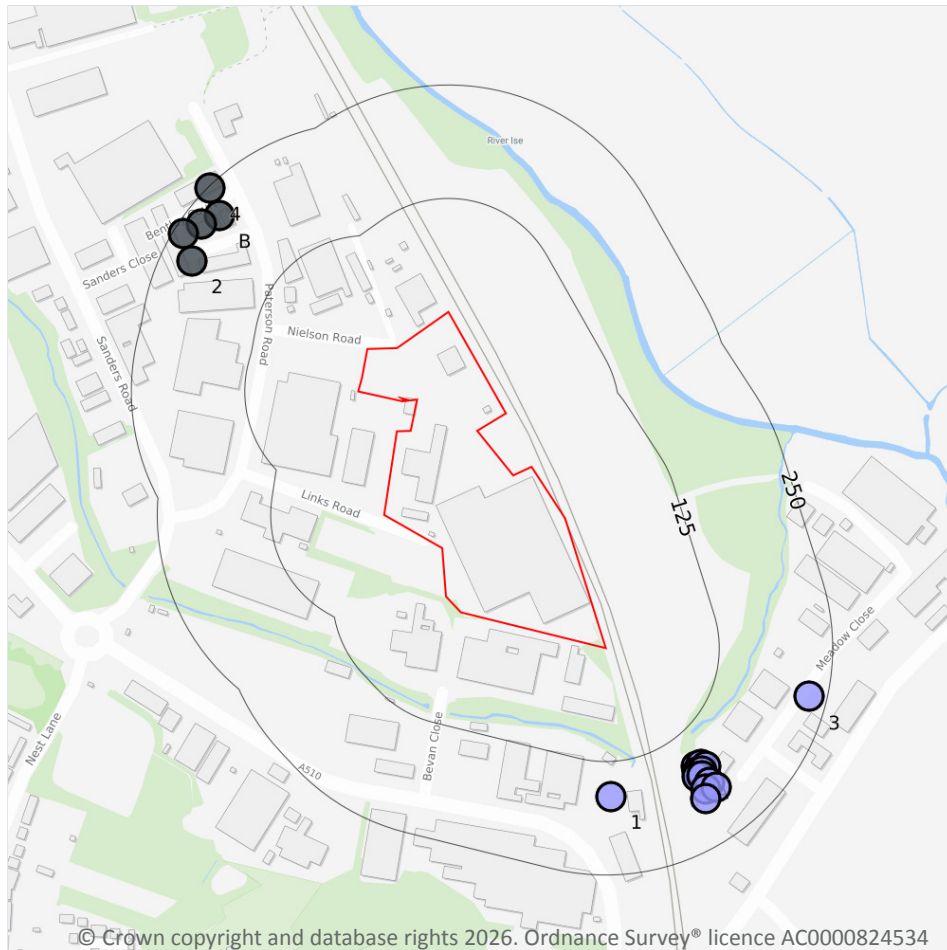
0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

18

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on [page 135 >](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	163m S	490362 269420	ISE VALLEY IND ESTATE WELLINGBOROUGH 8	1.5	N	18928972 ↗
A	164m SE	490456 269453	ISE VALLEY IND ESTATE WELLINGBOROUGH 5	1.65	N	18928969 ↗

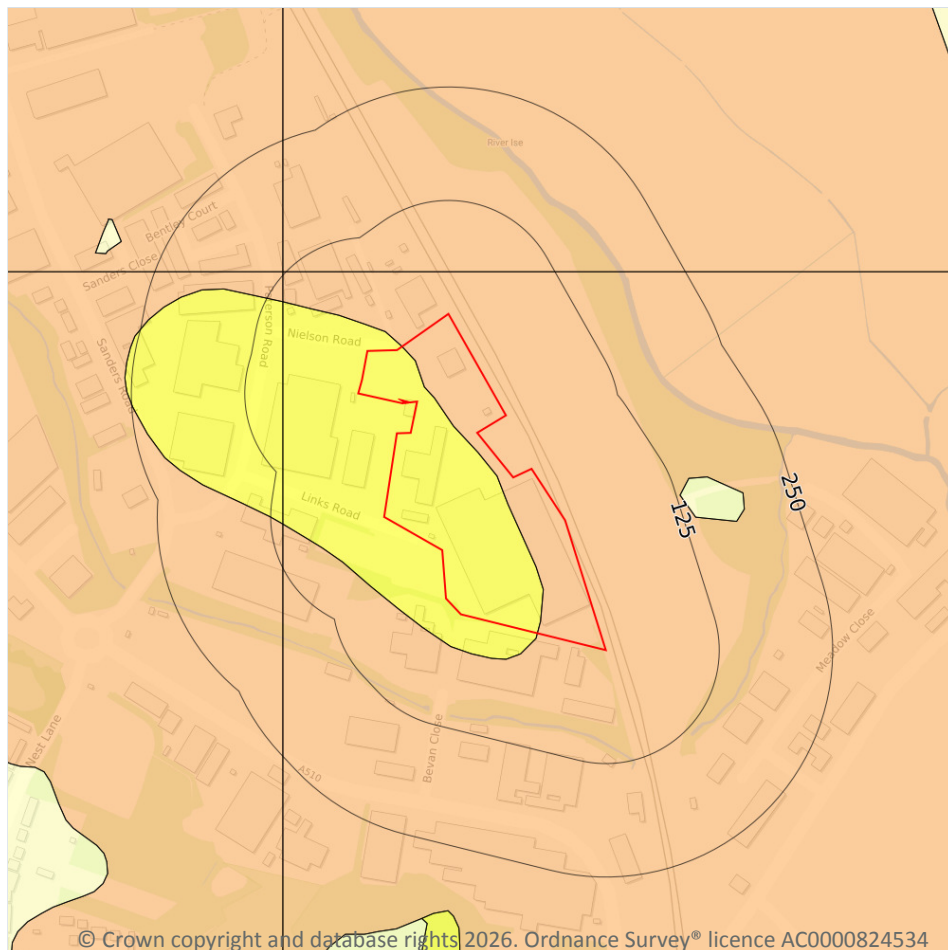


ID	Location	Grid reference	Name	Length	Confidential	Web link
A	166m SE	490461 269455	ISE VALLEY IND ESTATE WELLINGBOROUGH 6	1.5	N	18928971 ↗
A	170m SE	490457 269447	ISE VALLEY IND ESTATE WELLINGBOROUGH 4	2.0	N	18928968 ↗
A	171m SE	490466 269453	ISE VALLEY IND ESTATE WELLINGBOROUGH 3	2.5	N	18928966 ↗
A	172m SE	490462 269448	ISE VALLEY IND ESTATE WELLINGBOROUGH 12	1.0	N	18928976 ↗
A	175m SE	490457 269441	ISE VALLEY IND ESTATE WELLINGBOROUGH 10	1.6	N	18928974 ↗
A	177m SE	490462 269442	ISE VALLEY IND ESTATE WELLINGBOROUGH 11	1.2	N	18928975 ↗
A	187m SE	490470 269435	ISE VALLEY IND ESTATE WELLINGBOROUGH 9	1.0	N	18928973 ↗
A	190m SE	490466 269428	ISE VALLEY IND ESTATE WELLINGBOROUGH 2	2.0	N	18928967 ↗
A	195m SE	490477 269430	ISE VALLEY IND ESTATE WELLINGBOROUGH 1	1.5	N	18928965 ↗
A	199m SE	490466 269417	ISE VALLEY IND ESTATE WELLINGBOROUGH 7	1.5	N	18928970 ↗
2	216m NW	489900 270010	PATTERSON ROAD WELLINGBOROUGH 9/88 TP 1	-	Y	N/A
B	220m NW	489930 270060	PATTERSON ROAD WELLINGBOROUGH 9/88 TP 2	-	Y	N/A
B	229m NW	489910 270050	PATTERSON ROAD WELLINGBOROUGH 9/88 TP 3	-	Y	N/A
3	230m E	490580 269530	FINEDON RD EST WELLINGBOROUGH TP 6	2.9	N	362318 ↗
B	240m NW	489890 270040	PATTERSON ROAD WELLINGBOROUGH 9/88 TP 4	-	Y	N/A
4	248m NW	489920 270090	PATTERSON ROAD WELLINGBOROUGH 9/88 TP 6	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

3

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 137 >](#)

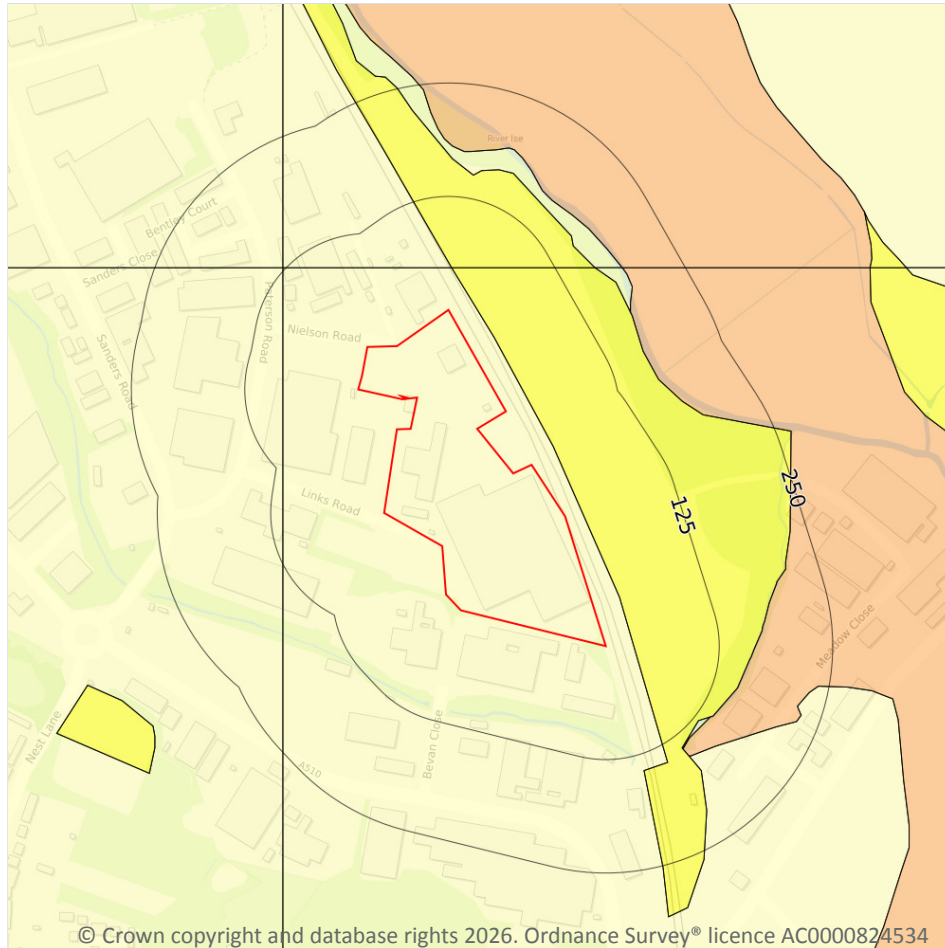
Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
On site	Low	Ground conditions predominantly medium plasticity.
47m N	Low	Ground conditions predominantly medium plasticity.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

4

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 139](#) >

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

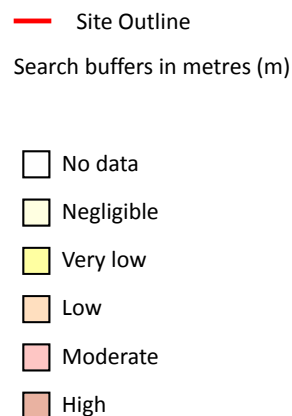
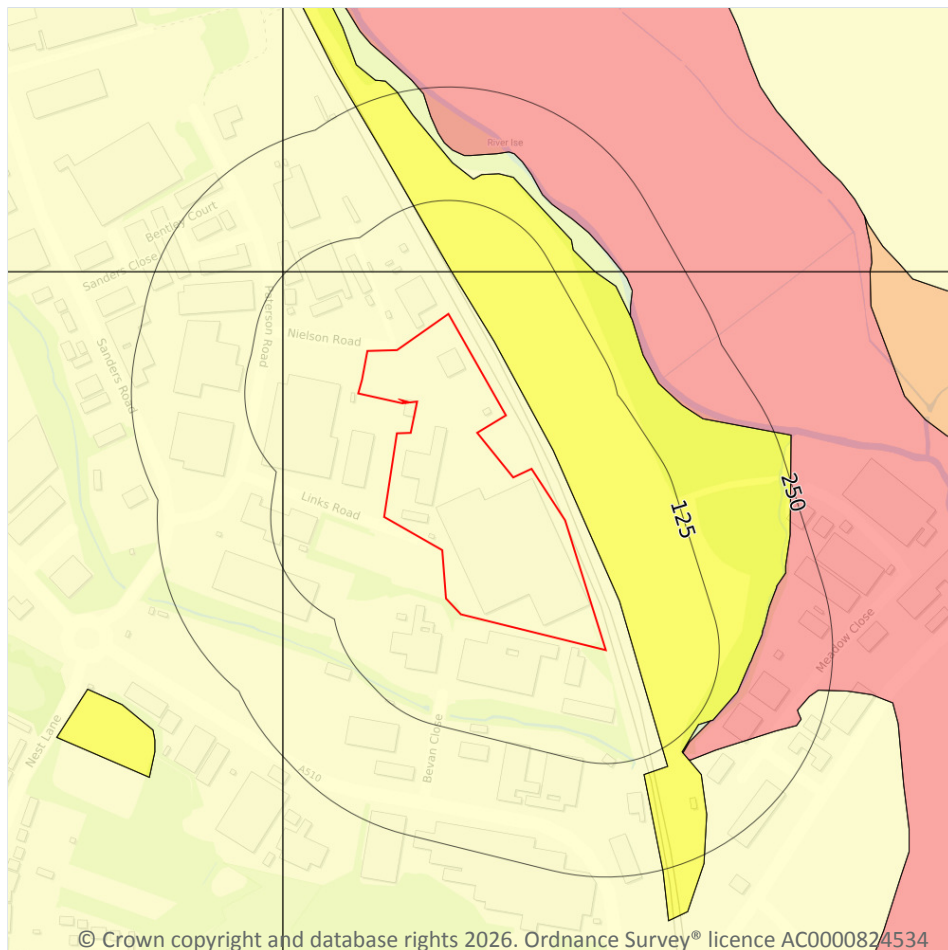


Location	Hazard rating	Details
19m NE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
47m N	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
47m N	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

4

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 141](#) >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
19m NE	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

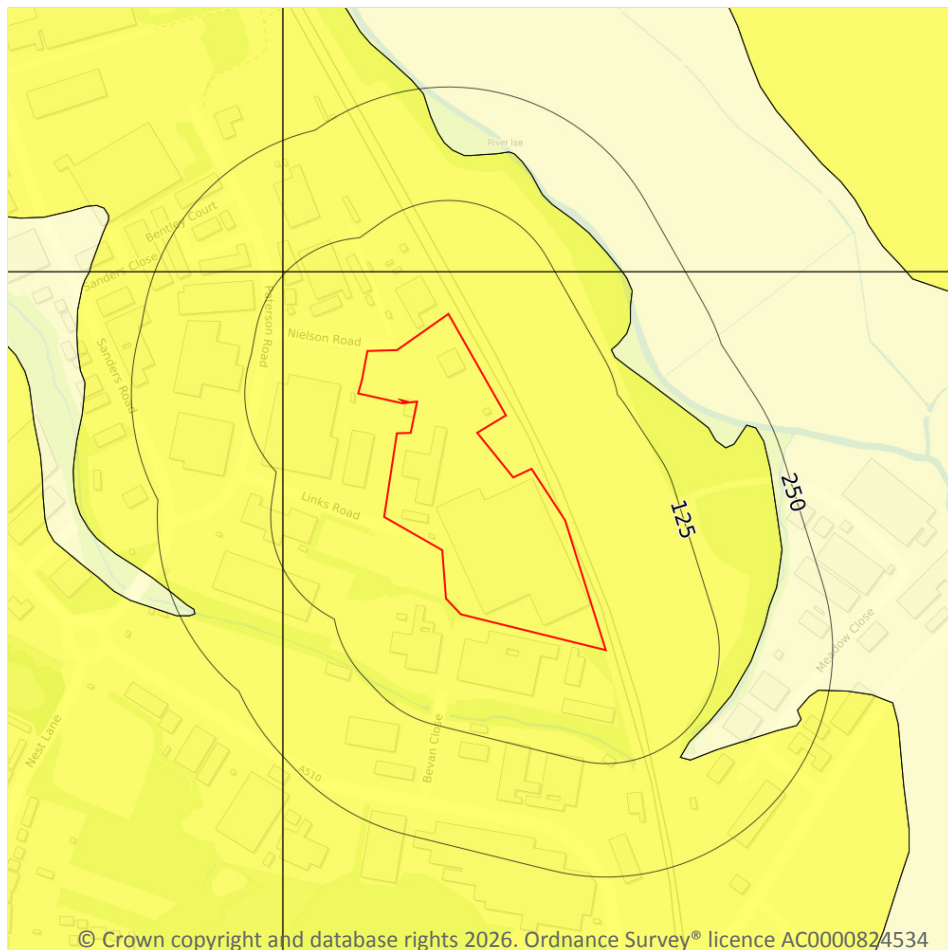


Location	Hazard rating	Details
47m N	Negligible	Compressible strata are not thought to occur.
47m N	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

2

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

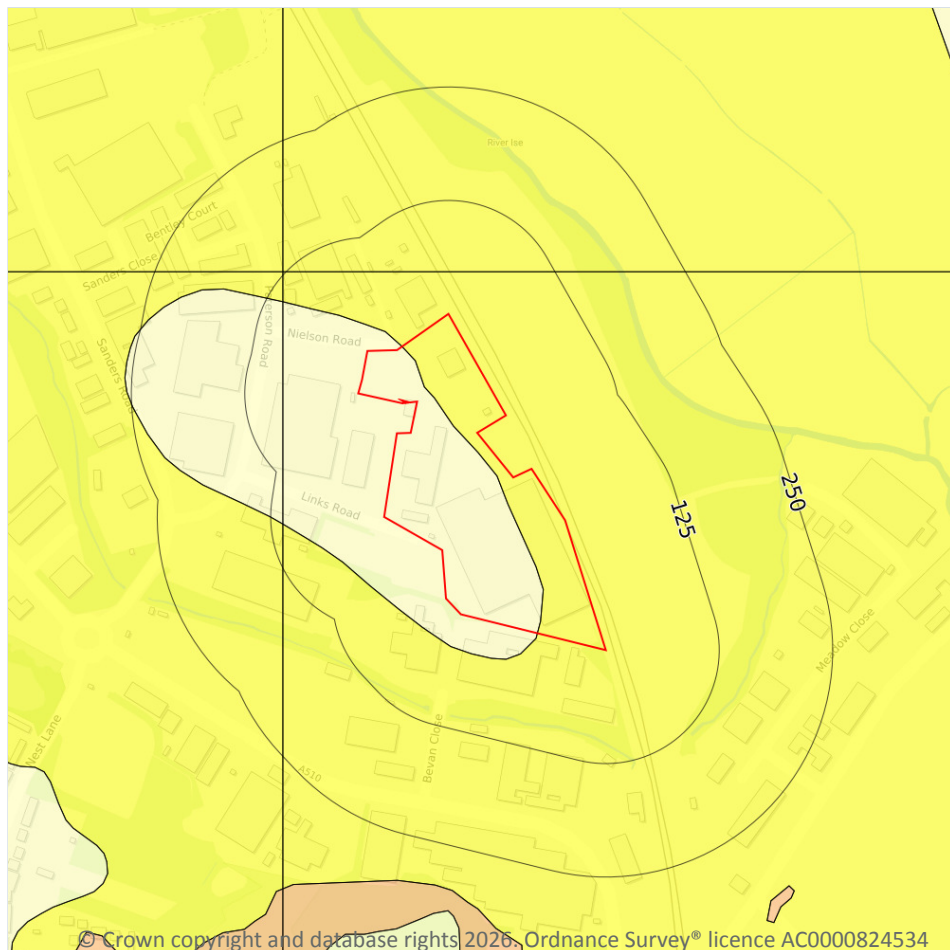
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 143 >](#)

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
47m N	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

3

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on [page 144](#) >

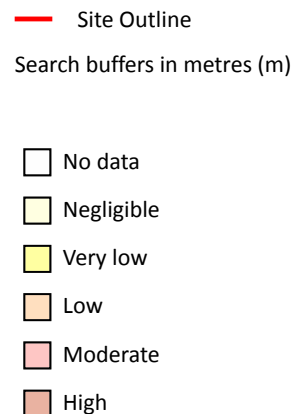
Location	Hazard rating	Details
On site	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
47m N	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

2

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 146](#) >

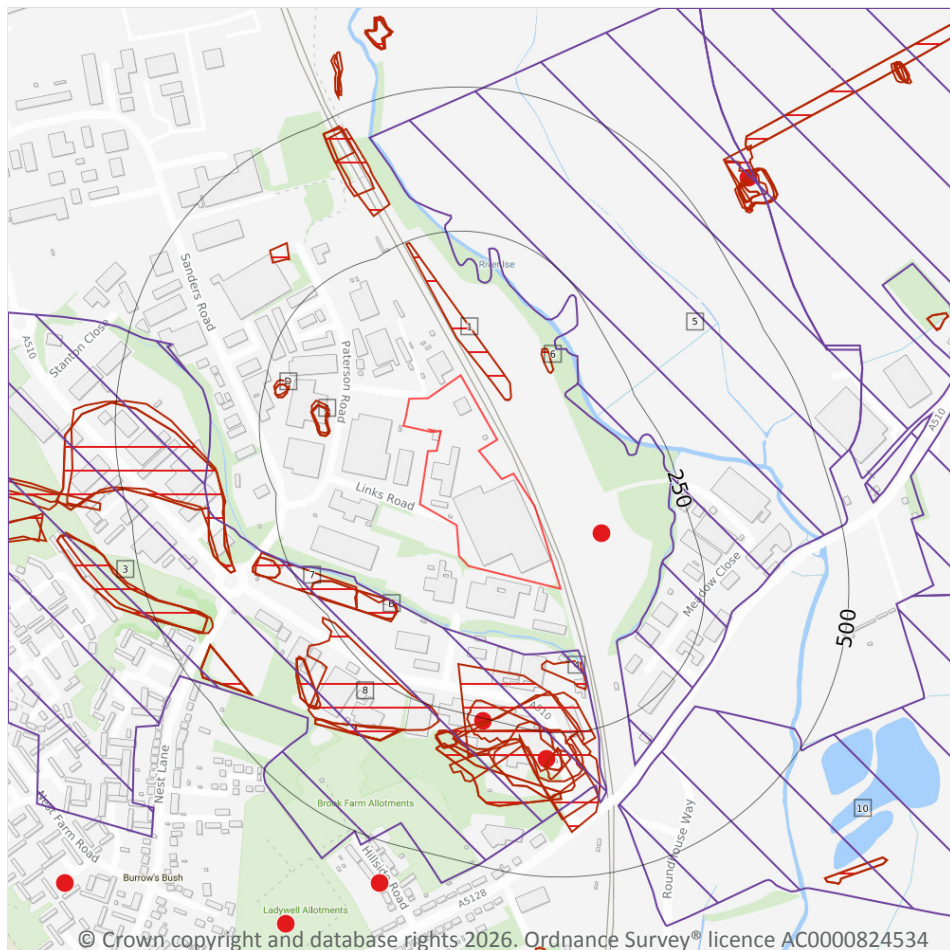
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
47m N	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

3

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on [page 148](#) >

ID	Location	Details	Description
2	96m E	Name: Neilson's Sidings Rail Depot Address: Ise Valley Industrial Estate, WELLINGBOROUGH, Northamptonshire Commodity: Crushed Rock Status: Active	Type: A site where mineral commodities are loaded to, and, or, unloaded from, rail trucks and stored. Status description: Site which is actively extracting a mineral, or in the case of wharfs and rail depots, is actively handling minerals



ID	Location	Details	Description
9	255m S	Name: Wellingborough Brick Field Address: Finedon Road, WELLINGBOROUGH, Northamptonshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
C	295m S	Name: Brook Farm Brick Field Address: Burrow's Bush, WELLINGBOROUGH, Northamptonshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	21
----------------------------	-----------

Historical land uses identified from Ordnance Survey® mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on [page 148](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	35m NE	Unspecified Pit	1899	1:10560
4	127m S	Ponds	1938	1:10560
A	128m W	Unspecified Pit	1938	1:10560
A	129m W	Unspecified Pit	1958	1:10560
A	129m W	Unspecified Pit	1950	1:10560
A	129m W	Unspecified Pit	1950	1:10560
6	136m NE	Unspecified Heap	1938	1:10560
B	138m SW	Refuse Heap	1957	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	138m SW	Refuse Heaps	1950	1:10560
B	138m SW	Refuse Heaps	1950	1:10560
C	162m S	Brick Field	1884	1:10560
C	179m S	Brick Works	1899	1:10560
C	180m S	Brick Works	1938	1:10560
7	181m SW	Refuse Heaps	1958	1:10560
D	208m W	Unspecified Pit	1958	1:10560
D	210m W	Unspecified Pit	1950	1:10560
D	210m W	Unspecified Pit	1950	1:10560
C	221m S	Unspecified Ground Workings	1884	1:10560
8	232m SW	Refuse Heap	1938	1:10560
C	236m S	Unspecified Pit	1938	1:10560
C	245m S	Unspecified Pit	1899	1:10560

This data is sourced from Ordnance Survey®/Groundsure.

18.3 Underground workings

Records within 1000m

0

Historical land uses identified from Ordnance Survey® mapping that indicate the presence of underground workings e.g. mine shafts.

This data is sourced from Ordnance Survey®/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

3

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

Features are displayed on the Mining and ground workings map on [page 148 >](#)

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
3	109m S	Carol Spring No.5	Ironstone	Surface mineral working	Application	Not available
5	133m SE	Carol Spring No.5	Ironstone	Surface mineral working	Valid	Not available
10	310m SE	Carol Spring No.5	Ironstone	Surface mineral working	Valid	13/8/58

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.



18.8 The Coal Authority non-coal mining

Records within 500m**0**

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m**1**

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

Location	Mineral type
422m S	Metals

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m**0**

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m**0**

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.



18.12 Coal mining

Records on site	0
-----------------	---

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0
-----------------	---

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey® maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

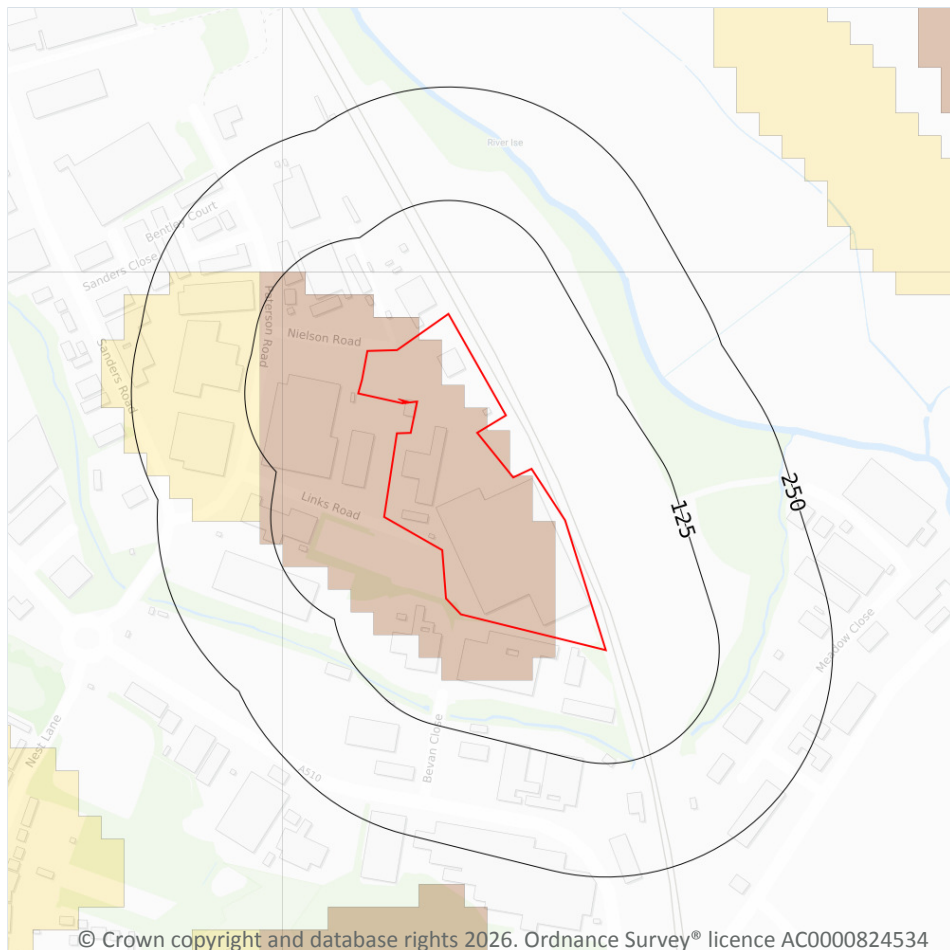
Not all 'holes' noted on Ordnance Survey® mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.



20 Radon



- Site Outline**
- Search buffers in metres (m)**
- Greater than 30%
 - Between 10% and 30%
 - Between 5% and 10%
 - Between 3% and 5%
 - Between 1% and 3%
 - Less than 1%

20.1 Radon

Records on site

2

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 156](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 10% and 30%	Full



Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None

This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

5

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	1 - 2 mg/kg	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	35 - 45 mg/kg	2 mg/kg	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	35 - 45 mg/kg	2 mg/kg	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	60 - 120 mg/kg	3 - 6 mg/kg	100 mg/kg	60 mg/kg	1.8 mg/kg	120 - 180 mg/kg	45 - 60 mg/kg
46m N	15 - 25 mg/kg	1 mg/kg	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.



21.3 BGS Measured Urban Soil Chemistry

Records within 50m

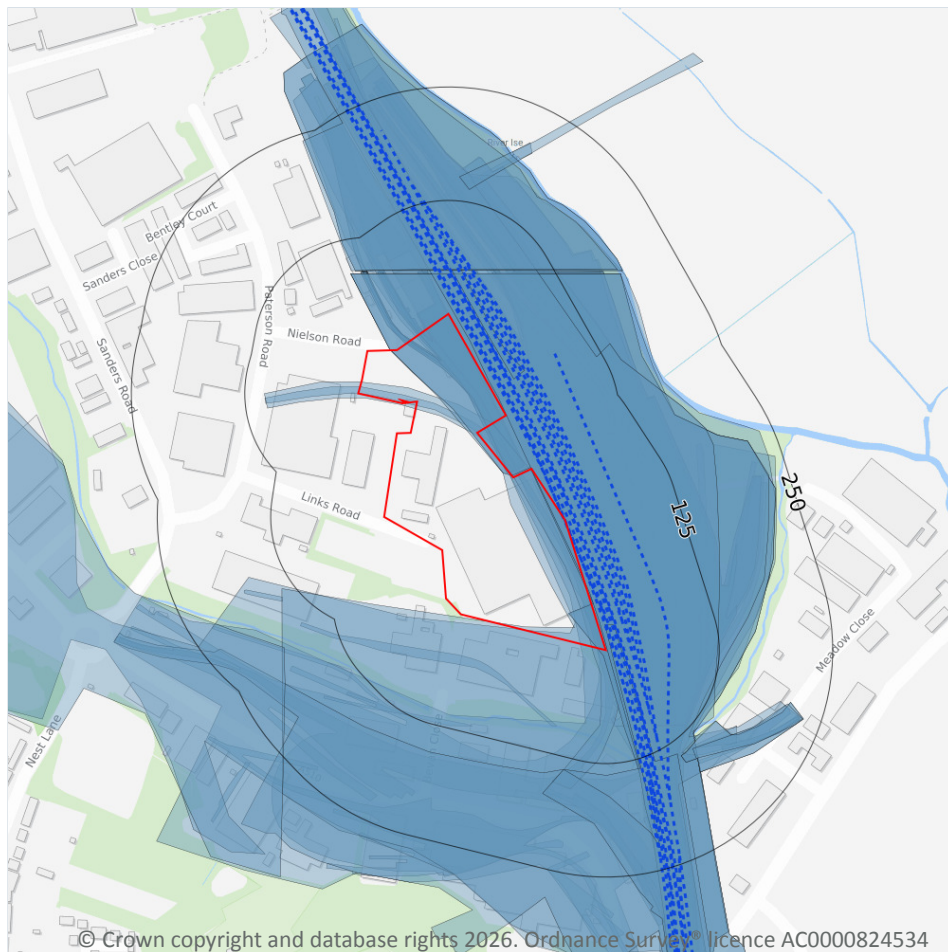
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- ... Active railways
- ... Active tunnels
- ... Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey® mapping.

This data is sourced from the Ordnance Survey®.

22.4 Historical railway and tunnel features

Records within 250m

54

Railways and tunnels digitised from historical Ordnance Survey® mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on [page 160](#) >

Location	Land Use	Year of mapping	Mapping scale
On site	Mineral Railway Sidings	1938	10560
On site	Railway Sidings	1950	10560
On site	Tramway Sidings	1899	10560
On site	Railway Sidings	1988	10000
On site	Railway Sidings	1980	10000
On site	Railway Sidings	1957	10560
On site	Railway Sidings	1899	10560
On site	Railway Sidings	1977	1250
On site	Railway Sidings	1966	1250
On site	Railway Sidings	1974	2500
On site	Railway Sidings	1985	2500
On site	Railway Sidings	1990	2500
On site	Tramway Sidings	1899	2500
On site	Railway Sidings	1925	2500
2m E	Railway Sidings	1887	2500
2m NE	Railway Sidings	1899	2500
6m E	Railway Sidings	1884	10560



Location	Land Use	Year of mapping	Mapping scale
6m NE	Railway	1887	-
14m E	Railway Sidings	1985	2500
14m E	Railway Sidings	1990	2500
17m NE	Railway Sidings	1977	1250
17m NE	Railway Sidings	1966	1250
26m NE	Railway Sidings	1887	2500
27m NE	Railway Sidings	1884	10560
33m S	Railway Sidings	1966	1250
44m S	Mineral Railway Sidings	1966	1250
48m N	Railway Sidings	1974	10000
48m N	Railway Sidings	1994	10000
49m N	Railway Sidings	1950	10560
51m NW	Railway Sidings	1965	1250
52m NW	Railway Sidings	1972	2500
54m NE	Railway Sidings	1972	2500
69m NE	Railway Sidings	1965	1250
69m NE	Railway Sidings	1972	2500
84m S	Railway Sidings	1966	1250
86m NE	Railway Sidings	1965	1250
86m NE	Railway Sidings	1972	2500
97m SE	Railway Sidings	1995	1250
98m SE	Railway Sidings	1971	1250
98m SE	Railway Sidings	1966	1250
116m S	Mineral Railway Sidings	1966	1250
137m SE	Tramway Sidings	1938	10560
139m N	Tram Sidings	1938	10560
141m SE	Tramway Sidings	1899	2500
141m SE	Tramway Sidings	1899	10560



Location	Land Use	Year of mapping	Mapping scale
141m SE	Mineral Railway Sidings	1966	1250
143m SW	Railway Sidings	1966	1250
145m SE	Tramway Sidings	1950	10560
147m SE	Railway Sidings	1887	2500
162m S	Railway Sidings	1887	2500
166m SE	Tramway Sidings	1925	2500
181m SW	Railway Sidings	1958	10560
183m SW	Mineral Railway Sidings	1966	1250
223m S	Tramway Sidings	1899	2500

This data is sourced from Ordnance Survey®/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

20

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on [page 160 >](#)



Location	Name	Type
On site	Midland Main Line	rail
On site	Not given	Multi Track
4m E	Midland Main Line	rail
8m E	Midland Main Line	rail
8m E	Not given	Multi Track
9m E	Not given	Multi Track
11m NE	Not given	Multi Track
12m E	Midland Main Line	rail
20m E	Neilson's Sidings	rail
23m E	Neilson's Sidings	rail
27m E	Neilson's Sidings	rail
31m E	Neilson's Sidings	rail
34m E	Neilson's Sidings	rail
38m E	Neilson's Sidings	rail
62m NE	Neilson's Sidings	rail
105m S		rail
158m S		rail
232m S	Not given	Multi Track
236m S		rail
237m S		rail

This data is sourced from Ordnance Survey® and OpenStreetMap.

22.8 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.



22.9 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference> ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.



APPENDIX B – AECOM Environmental Report for Closure



Project Phoenix Univar Wellingborough

Ground Investigation Factual Report

Univar Solutions Ltd.

Project number: 60623770

August 2022

Quality information

Prepared by	Checked by	Verified by	Approved by
			
Ian PK Muir Environmental Consultant	Sarah Davies Principal Environmental Consultant	Dr Rick Parkman Technical Director	Sarah Davies Project Manager

Revision History

Revision	Revision date	Details	Authorized	Name	Position
01	30/08/2022	1 st Issue	SAD	Sarah Davies	Project Manager

Distribution List

# Hard Copies	PDF Required	Association / Company Name
	x	Univar Solutions Limited

Prepared for:

Univar Solutions Ltd.
Univar Solutions Ltd,
8 Links Rd,
Finedon Road Industrial Estate,
Wellingborough NN8 4EY

Prepared by:

Ian PK Muir
Environmental Consultant
M: 07867 858 630
E: ian.muir1@aecom.com

AECOM Infrastructure and Environment Limited
1 New York Street
Manchester M1 4HD
United Kingdom

T: +44 161 601 1700
aecom.com

AECOM Infrastructure & Environment UK Limited ("AECOM") has prepared this Report for the sole use of **Univar Solutions Ltd.** ("Client") in accordance with the terms and conditions of appointment (**Project number: 60623770**) dated **August 2022**. No other warranty, expressed or implied, is made as to the professional advice included in this Report or any other services provided by AECOM. This Report may not be relied upon by any other party without the prior and express written agreement of AECOM.

Where any conclusions and recommendations contained in this Report are based upon information provided by others, it has been assumed that all relevant information has been provided by those parties and that such information is accurate. Any such information obtained by AECOM has not been independently verified by AECOM, unless otherwise stated in the Report. AECOM accepts no liability for any inaccurate conclusions, assumptions or actions taken resulting from any inaccurate information supplied to AECOM from others.

The methodology adopted and the sources of information used by AECOM in providing its services are outlined in this Report. The work described in this Report was undertaken between **February 2020** and **March 2022** and is based on the conditions encountered and the information available during the said period of time. The scope of this Report and the services are accordingly factually limited by these circumstances. AECOM disclaim any undertaking or obligation to advise any person of any change in any matter affecting the Report, which may come or be brought to AECOM's attention after the date of the Report.

The exploratory holes carried out during the fieldwork, which investigate only a small volume of the ground in relation to the size of the site, can only provide a general indication of site conditions. The comments made and recommendations given in this Report are based on the ground conditions apparent at the site of the exploratory holes. There may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this Report.

The comments made on groundwater conditions are based on observations made during site work and the limited monitoring programme. It should be noted that groundwater levels might vary owing to seasonal or other effects.

The opinions expressed in this Report concerning any contamination found and the risks arising there from are based on current good practice simple statistical assessment and comparison with available soil guideline values, AECOM generic assessment criteria and other guidance values.

It should be noted that the effects of ground and water borne contamination on the environment are constantly under review, and authoritative guidance values are potentially subject to change. The conclusions presented herein are based on the guidance values available at the time this Report was prepared, however, no liability by AECOM can be accepted for the retrospective effects of any changes or amendments to these values.

Unless otherwise stated in this Report, the assessments made assume that the sites and facilities will continue to be used for their current purpose without significant changes.

Copyright

© This Report is the copyright of AECOM. Any unauthorised reproduction or usage by any person other than the addressee is strictly prohibited.

Table of Contents

1.	Introduction.....	1
2.	Summary of Works	4
3.	Laboratory Testing Results and Analysis.....	11
4.	Summary & Conclusions	15
	Appendix A Document copies.....	1
A.1	Photos Well Condition Survey.....	1
A.2	Photos Drilling	2
	Appendix B AECOM Borehole Logs.....	3
	Appendix C Groundwater Level, Wellhead Parameters & Contour Plots	4
	Appendix D Laboratory Results & Tables.....	5
	Appendix E Low Flow Sample Reports	6

Figures

Figure 1	Site plan with historic and current potential sources of contamination	1
Figure 2	Site plan with boundaries.....	2
Figure 3	Exploratory Hole Location Plan. Comprising existing Ford 2011 (100 series) and new AECOM 2022 (200 series) monitoring wells	6
Figure 4	Groundwater Contour Map, 23rd March 2022. Inferred groundwater direction towards the northeast.	9
Figure 5	Borehole plan with VOCs concentrations above the laboratory limit of detection	13

Tables

Table 1	Well drilling rationale	4
Table 2	Purge volumes with PIDs	7
Table 3	Wells with VOCs above detection limit from AECOM's 2022 groundwater monitoring (results presented as µg/l)	12
Table 4	Ford 2011 VOCs in µg/l. (BDL = below detection limit)	14

1. Introduction

1.1 Background

AECOM Infrastructure & Environment Limited ('AECOM') was commissioned by Univar Solutions UK Limited ('Univar') to undertake various environmental assessment works at the Wellingborough facility located on Links Rd, Finedon Road Industrial Estate, Wellingborough, NN8 4EY (the subject site). The assessment works included a well condition survey of existing boreholes, installation of new monitoring wells and site wide groundwater sampling and testing and assessment of the analytical results.

AECOM undertook an environmental due diligence site assessment¹ in 2020. Through this, AECOM identified that a site investigation and groundwater sampling event had been completed in 2011 by Ford Consulting². Due to the age of that data and as a leakage around the effluent treatment plant (Feature Number 3 in **Figure 1**) had also been identified, additional site wide sampling and investigation were recommended to provide an update on soil and groundwater conditions at the site.



Figure 1 Site plan with historic and current potential sources of contamination

The site is understood to be partially owned and partially leased by Univar. The lease has less than 50 years remaining, and Univar is understood to have no right of surrender. Therefore, the lease will be passed to a new tenant. **Figure 2** shows the ownership and lease boundaries.

¹ Project Phoenix, Environmental Due Diligence Assessment – Wellingborough, 60623770_ACM_RP_EN_0001_B, dated: April 2020, AECOM

² Environmental Site Assessment Wellingborough Facility, 00126-015/5.2, dated May 2011, Ford Consulting Group



Figure 2 Site plan with boundaries.

1.2 Scope and Objectives

The primary purpose of the work presented in this report was to:

- Assess the condition of all existing groundwater monitoring wells;
- Drill and install 3 no. new monitoring wells;
- Sample soil from 3 no. new wells;
- Develop 3 no. newly installed wells and all accessible historical monitoring wells on site;
- Conduct a series of groundwater level monitoring and sampling from the site wide monitoring wells; and
- Assess current soil and groundwater conditions at the site.

1.3 Summary of Available Information

Previous information for the site is provided in the Ford Consulting 2011 Environmental Site Assessment and the AECOM 2020 Environmental Due Diligence Assessment. The following section summarises the findings from these assessment reports.

Figure 1 is taken from AECOM's 2020 report and shows the potential historical and current sources of contamination at the site.

Site Setting: The site is set in an industrial area adjacent to a railway that runs parallel to the eastern boundary, the River Ise lies approximately 140m northeast. The site has been used as a chemical storage and distribution facility which has recently undergone phased closure. Chemicals held at site were mostly acids, bleaches and solvents, stored in 25 - 1000L sized containers and various multi-thousand litre tanks. Other activities on site included diesel refilling, washing containers, engineering workshop and an effluent treatment plant.

Site History: Historically the site was partially covered in tramways and railway sidings. From the 1960's part of the site was used for chemical storage with the site further expanded in 1990's.

Geology: The Ford 2011 report³ recorded made ground between 0.5-1.25m in thickness underlain by the Northampton Sand Formation and the Whitby Mudstone Formation, the thickness of which was not proven.

Environmental Designations: The Northampton Sand Formation is designated as a Secondary A aquifer and has a high groundwater vulnerability classification. This classification is partly due to it being a source for the River Ise 140m northeast of the site. The Whitby Mudstone Formation is designated as unproductive strata. The site is in a nitrate vulnerable zone and a surface water safeguard zone for herbicides and pesticides. No active groundwater or surface water abstractions were found within 1km of the site.

Soil and groundwater investigation results (Ford report, April 2011): The investigation comprised the installation of 11 no. monitoring wells and collecting soil and groundwater samples for laboratory analysis. Elevated total petroleum hydrocarbons (TPH) were detected within the made ground at MW101 (1164 mg/kg), which is noted to be in the vicinity of a former above ground tank. There were also some slightly elevated polycyclic aromatic hydrocarbon (PAH) concentrations in the east of the site. No asbestos was identified within the soil samples analysed.

Groundwater was found to be slightly acidic (on average pH 6.12), with iron, zinc, cadmium, trichloroethene, phosphate and sulphate exceeding environmental quality standards (EQS). However, given the concrete covering of the site, its current use (industrial), and the anticipated dilution that contaminants in groundwater would likely undergo before meeting the River Ise, a significant risk to human health or controlled waters was not considered to be present. Due to the level of sulphate reported in WE108 (which is located along the eastern site boundary), additional hydrogeological risk assessment using the ESI Ltd RAM v2.03 (Risk Assessment Model) was undertaken by Ford which determined that sulphate was not considered to pose a significant risk to Controlled Waters (River Ise).

³ Ford Consulting Group, Environmental Site Assessment Wellingborough Facility. Project 00126-015/5.2 Draft Report, dated 2011)

2. Summary of Works

The following presents a summary of the additional works undertaken by AECOM between February and March 2022.

2.1 Well Condition Survey and Well Repair Works

During the well condition survey all 11 no. historical wells were located and inspected on the 29th February 2022. A total of 5 no. wells could not be opened during the inspection. During inspection, one (1 no.) of the well covers which was accessible was noted to be damaged. Full details of the well conditions observed at the time are reported in the well condition memorandum⁴. A well condition photo log can be seen in **Appendix A**.

Following approval from Univar to reinstate the inaccessible and damaged well covers, repair works were undertaken by RemTech Ltd on the 8th March 2022. Monitoring well covers at 4 no. locations (WE101, WE103, WE104, WE110) were cored out and replaced. A further 1 no. well cover (WE108) was replaced without the need for coring. Another well (WE102) which could not be opened during the well inspection was accessed and made available for future sampling.

2.2 Utility Survey

Utility clearance for an additional 3 no. drilling locations (adjacent to effluent treatment plant and eastern boundary of the site) was undertaken by Utility Mapping Group Ltd on the 29th February 2022. These locations were cleared for services by referencing known utility plans (including site owned and purchased statutory plans), use of ground penetrating radar (GPR) and electromagnetic location (EML)⁵.

Proposed and existing monitoring wells were surveyed by recording coordinates and levels.

2.3 Intrusive Drilling Works

The drilling works to install 3 no. new monitoring wells was undertaken between 7th and 9th March 2022.

The site plan presenting monitoring wells, including new (WE201-WE203 series, AECOM 2022) and historical (WE101-WE111, Ford 2011) monitoring wells is shown on **Figure 3**. The rationale for the new wells is presented in **Table 1**.

Table 1 Well drilling rationale

Well ID	Rationale
WE201	Located in the north-eastern most accessible portion of the facility in an area not previously investigated and downgradient of the site DERV tank and soakaway.
WE202	Located along the eastern boundary of site, downgradient of the main tank farm.
WE203	Located adjacent to the effluent treatment plant which is understood to have leaked in 2019.

The monitoring well installed in WE203 was originally cored close to the effluent tank (see position WE203A on **Figure 3**) however, a concrete tank was encountered. This concrete tank was partially filled with concrete and rebar, presented no odours, was not recorded on any available service or historical plans and was not found to be connected to any services located during the utility survey. It is assumed that this tank is decommissioned. A photograph is included in **Appendix A.2** of the

⁴ Univar Wellingborough Well Condition Memo, 3 March 2022

⁵ PAS128 Survey in line with HSE HSG47 – Avoiding Danger from Underground Services (UK)

arising. The drilling equipment was relocated to WE203 to provide adequate stand off from existing drainage.

Following concrete coring and hand pitting to 1.2m bgl, WE201, WE202, WE203 were dynamic sampled, and rotary drilled to a maximum depth of 7.2m bgl.

2.4 Ground Conditions Summary

The strata generally comprised made ground underlain by clay or gravel which was assumed to be the weathered part of the Northampton Sand Formation and the Whitby Mudstone Formation.

Made ground was encountered to the following depths; 1.3m bgl (WE201), 2.7m bgl (WE202) and 1.0m bgl (WE203), comprising brown gravelly clay or sandy gravel. Anthropogenic material included tarmac, coal, brick fragments, slag and fabric.

Natural ground in MW201 was described as stiff slightly gravelly grey CLAY. Gravel was described as mudstone. Natural ground in MW202 was described as GRAVEL & COBBLES, gravelly CLAY and clayey GRAVEL. Gravel and cobbles were described as mudstone and natural ground in MW201 and MW202 was considered to be weathered Whitby Mudstone Formation.

Natural ground in MW203 was described as gravelly sandy CLAY with gravel described as sandstone. This was considered to be weathered Northampton Sands Formation. This was underlain by stiff CLAY considered to be part of the Whitby Mudstone Formation. From 1.6-1.7m bgl a black layer of sand with a slight hydrocarbon odour was noted.

Groundwater was not encountered in any of the new monitoring wells during drilling works.



2.5 Soil Logging, Testing, Sampling and Installation of Monitoring Wells

During the advancement of the boreholes, samples for environmental testing were taken and soil/rock arisings logged by an environmental engineer. The borehole logs are presented in **Appendix B**.

Testing for volatile vapours was undertaken on arisings during the site works using a photo-ionisation detector (PID) with readings taken every 0.5m for the first 3m followed by every 1m thereafter. All PID readings were <1ppm except for 8ppm which was recorded in WE201 at 0.5m sampled within made ground.

Soil samples were taken from made ground and from natural ground, with 6 no. samples scheduled for laboratory analysis.

Tests included metals, sulphate, PAHs, volatile organic compounds (VOCs), total petroleum hydrocarbons criteria working group (TPH CWG), phenol, glycols, ammoniacal nitrogen, chloride, fluoride, orthophosphate, cyanide, total organic carbon (TOC), acids and pH.

Asbestos identification tests were also undertaken on samples of made ground.

Upon completion of drilling, monitoring wells were installed to target depths, a washed gravel pack was installed in the designed response zone to allow movement of groundwater. All other backfill comprised bentonite clay pellets. All arisings were transferred to a dedicated skip on site for disposal. The headworks comprised flush road grade covers.

2.6 Well Development

To ensure consistency of approach to the site wide sampling and given the age and condition of the 2011 wells, all wells (both new and historical) were developed by removing groundwater with pipe and ball valve. This was to ensure no sediment was present within the response zone and to encourage representative groundwater conditions (post drilling works in the new wells). Purged water was collected in Intermediate Bulk containers (IBCs) prior to disposal from site. Well development was done 2 weeks prior to groundwater sampling. Purged quantities along with PID readings are presented in **Table 2**.

Table 2 Purge volumes with PIDs

Well ID	Purge Volume (L)	PID (ppm)	Response Zone (mbgl)	Geology
WE101	4 to DRY	<1	1-3.4	SANDSTONE
WE102	4 to DRY	<1	1-2.9	SANDSTONE
WE103	4.5 to DRY	<1	1.1-3.4	SANDSTONE & MUDSTONE
WE104	4 to DRY	<1	1-2.4	SANDSTONE & MUDSTONE
WE105	4 to DRY	1	1-3.9	SANDSTONE & MUDSTONE
WE106	12	<1	1.5-4.5	SANDSTONE & MUDSTONE
WE107	12	<1	1.25-5.1	SANDSTONE

Well ID	Purge Volume (L)	PID (ppm)	Response Zone (mbgl)	Geology
				& MUDSTONE
WE108	18	<1	2.4-5	SANDSTONE
				& MUDSTONE
WE109	4 to DRY	<1	0.7-2.6	SANDSTONE
				& MUDSTONE
WE110	9 to DRY	<1	1.1-4	SANDSTONE
				& MUDSTONE
WE111	8 to DRY	<1	1-3.1	SANDSTONE
				& MUDSTONE
WE201	50	<1	1.6-4.5	MUDSTONE
WE202	40	<1	3-4.5	MUDSTONE
WE203	9 to DRY	<1	1.5-4	SANDSTONE
				& MUDSTONE

2.7 Groundwater Gauging

Groundwater levels were recorded on 3 no. occasions. The first, during the well condition survey (28th February 2022) prior to installation of new wells, the second immediately following the final well installation (9th March 2022) and the third, on 23rd March 2022 during the groundwater sampling visit (post site wide well development).

Water levels varied from 49.5mOD to 56.11mOD or 2.55m to 1.09m below ground level (bgl). The inferred groundwater flow is north easterly, towards the railway track and River Ise. A groundwater contour map is presented in **Figure 4**.

Groundwater gauging results are presented in **Appendix C**.

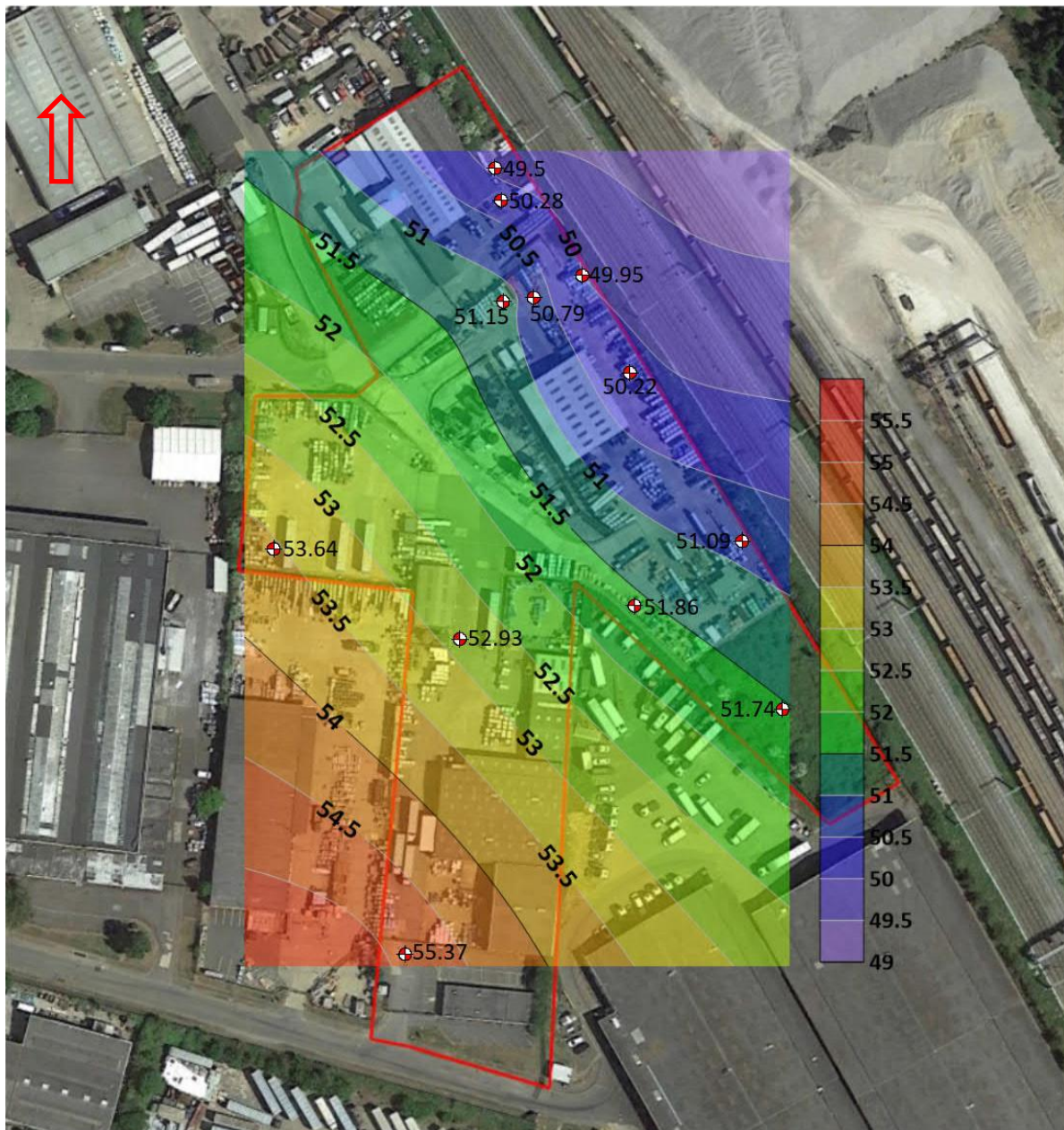


Figure 4 Groundwater Contour Map, 23rd March 2022. Inferred groundwater direction towards the northeast.

2.8 Groundwater Sampling and Testing

Groundwater sampling was undertaken on the 23rd and 24th March 2022, two weeks after the wells were developed. All 14 no. wells on site were purged and sampled using low-flow methods (peristaltic pump using an Insitu Aqua Troll to measure the hydrochemical parameters as indicated below). A single duplicate sample (DUP1) was taken from MW201.

All samples were sent to Element Material Testing Laboratory in Deeside, an AECOM approved laboratory in pre-chilled cool boxes.

No odours or sheens were noted during sampling and no free phase product was detected.

Laboratory results and screening tables are presented in **Appendix D**. Low flow sampling reports are presented in **Appendix E**.

All samples (except for WE102 – due to insufficient sample) were scheduled for testing of metals, pH, sulphide, sulphate, TPH CWG, benzene, toluene, ethylbenzene and xylene (BTEX), PAHs, chloride,

fluoride, orthophosphate, glycols & surfactants, acetic acid, VOCs and semi-volatile organic compounds (SVOCs).

The recharge of 5 no. wells (WE101, WE102, WE103, WE104 and WE109) was insufficient for a full and proper low-flow test to be completed. As a result, the test was stopped early, and a 'grab' sample was taken at these wells.

Due to the low volume of groundwater present in WE102 only a limited sample could be taken. As a result, only TPH CWG and PAH were scheduled for testing from WE102.

From the final Insitu Aqua Troll readings, parameters varied as follows:

- Redox potential varied **59 - 266mV**.
- Dissolved oxygen varied **0.05 – 7.6mg/l**
- Specific conductivity varied **1134 – 4766 µS/cm**
- pH varied **3.73 – 7.16**

A pH of 3.73 was obtained from groundwater in WE105 which was screened in both the sandstone and mudstone. The highest pH was 6.63 (WE108) which was screened in both the sandstone and mudstone.

3. Laboratory Testing Results and Analysis

3.1 Introduction

The collected soil and groundwater samples were sent to Element Material Testing Laboratory in Deeside, an AECOM approved laboratory for analysis. The following section summarises the findings.

3.2 Soil Results

Chemical analysis has been undertaken on 6 no. soil samples up to a maximum depth of 4m bgl from WE201 to WE203. This comprised 3 no. samples of Made Ground and 3 no. samples of natural soils. The test results are summarised in the following section.

Copies of laboratory certificates and the tables of results can be found in **Appendix D**.

Results obtained for arsenic in WE201 to WE203 ranged from 62 – 195 mg/kg, these are generally in line with the concentrations previously reported in 2011 (14.2-150.6mg/kg) which were attributed by Ford to the background levels of arsenic, understood to be naturally elevated in the area. Similarly, the majority of results for chromium III (63 – 173 mg/kg) are in line with the results previously obtained in 2011 and again these were attributed by Ford to the concentrations found in the area. Chromium in WE203 at 1.60m (natural strata taken in the vicinity of the effluent treatment plant) yielded the highest result of 1705 mg/kg. This sample (1.6-1.7m bgl) was taken from a layer of black sand which had a slight hydrocarbon odour. A former engineering/wagon works is noted to have been present in the local area, as shown in **Figure 1**.

Concentrations of nickel (ranging between 30.8-102.9mg/kg) and zinc (ranging between 105-358mg/kg) were generally lower in WE201, WE202 and WE203 than those reported previously by Ford in 2011. There were detections from all samples for other metals including barium, beryllium, copper (with the exception of WE203 at 1.6m), lead, selenium, vanadium and boron. There were no detections above laboratory detection limit in any soil samples for cadmium or mercury.

Relatively low detections of PAH's ranging between 0.04-1.3mg/kg were recorded in all locations, all from the made ground.

No detections for TPH, phenol, glycols, cyanide or acids were reported above the laboratory limit of detection.

All made ground samples were screened by the laboratory for asbestos with no detections noted.

VOCs were below the laboratory analytical detection limit with the exception of 5µg/kg trichloroethene (TCE) from WE201 at 2.10m (natural strata) which is located northeast of the site soakaway. TCE was not detected in groundwater above the lower analytical detection limit from WE201.

3.3 Groundwater Results

Chemical analysis was undertaken on 14 no. samples of groundwater obtained from historical wells (WE101-WE111) and newly installed wells (WE201-WE203). Numerous detections for metals, PAHs, TPH's and VOCs above the laboratory limit of detection were reported in wells across the site. Copies of laboratory certificates and the results tables can be found in **Appendix D**.

3.3.1 Metals

Detections of copper, nickel and zinc were spread throughout the site including the up-gradient wells. All metals tested with the exception of lead, selenium and vanadium had detections above the laboratory limit of detections.

3.3.2 Sulphate and Sulphur

Sulphate concentrations were detected in all wells analysed (except WE102 due to insufficient sample) and ranged from 117 mg/l (WE107) to 507 mg/l (WE108). The Ford 2011 report does not include any results for WE101-WE104 so site wide comparison cannot be made against the most recent data. Concentrations were generally higher than the 2011 results, although lower than the highest result reported by Ford in 2011 of 834mg/l also from WE108. The second highest concentration in WE103 is the most hydraulically up gradient well on site.

Additional hydrogeological risk assessment undertaken by Ford in 2011 to assess the risk from off-site migration of sulphate concluded there was no significant risk posed to controlled waters (River Isle). Testing of WE203 near the effluent treatment plant (location of a leak in 2019) yielded no differing results to the rest of the site.

Dissolved sulphur was also tested and ranged from 18mg/l (WE102) and 258mg/l (WE103).

3.3.3 VOCs

There were detections of chloroform in WE104 and WE105 and TCE in WE101, WE104, WE105 and PCE in WE101. There were also detections for 1,1-dichloroethane (WE108 10 µg/l) and 1 carbon tetrachloride (WE104 4 µg/l).

Other detections for VOC's included vinyl chloride, 1,1 Dichloroethene, 1,1 Dichloroethane, cis-1-2 Dichloroethene and 1,1,1-Trichloroethane. These detections are summarised in **Table 3** and presented in **Figure 5**. In WE107 (undeveloped land) and WE110 methyl tert-butyl ether (MTBE) were detected just above the laboratory limit of detection.

Table 3 Wells with VOCs above detection limit from AECOM's 2022 groundwater monitoring (results presented as µg/l)

	WE101	WE102	WE104	WE105	WE108
cis-1-2-Dichloroethene	4				
Chloroform			20	8	
1,1,1-Trichloroethane				3	10
Carbon tetrachloride			4		
Trichloroethene (TCE)	11		24	19	
Tetrachloroethene (PCE)	52				
1,1-Dichloroethene (1,1 DCE)					4
1,1-Dichloroethane					10
Vinyl chloride		0.2			



The most detections for PAHs were reported in WE101. The following PAH compounds were only detected in WE101 and no other well: acenaphthylene, acenaphthene, anthracene, benzo (bk) fluoranthene, benzo(a)pyrene, indeno(123cd)pyrene, dibenzo(ah)anthracene, benzo(g,h,i)perylene and benzo(k)fluoranthene.

WE101 is in an area close to a former flammable storage store and most recently used as a trailer park.

3.3.5 Ammoniacal Nitrogen

Results have been obtained for ammoniacal nitrogen (when expressed as NH₄) above the limit of detection from 10 no. wells; WE104, WE105, WE106, WE201, WE202, WE203, WE108, WE109, WE110 and WE111 ranging between 0.12-19.54 mg/l.

3.3.6 Other Contaminants

WE101 and WE103 were the only wells with detections of petroleum hydrocarbons in groundwater on the site (aliphatic hydrocarbons >C₈-C₁₀ banding for WE101 (15 µg/l) and majority in EC16-EC36 aliphatic banding 3070 µg/l for WE103).

Chloride and fluoride were detected in all wells (with exception of WE102 which was not tested and WE108 which was below the limit of detection for fluoride). Orthophosphate was below the limit of detection in most wells, with the exception of WE105 (0.10mg/l), WE202 (0.07mg/l) and WE203(0.09mg/l).

No detections of BTEX, glycols, acetic acid, SVOCs were detected above the laboratory limit of detection.

3.4 Results Comparison with Ford 2011 Results

The 2011 Ford report only tested groundwater samples from WE105, WE106, WE107, WE108, WE110 and WE111 so whilst a full comparison of both datasets cannot be made, it is useful to consider for these wells.

Concentrations of nickel and zinc have increased when compared to the Ford 2011 report results and arsenic concentrations have remained similar.

The Ford 2011 investigation noted sulphate concentrations up to 838 mg/l, whilst site wide sulphate concentrations have increased in the 2022 results, none are higher than the peak result obtained in 2011 (838 mg/l).

The Ford 2011 report did not record any PAHs in groundwater above the laboratory detection limit, however, WE103 was not previously sampled.

Wells where VOCs were encountered above the laboratory detection limit in the 2011 Ford report are shown in **Table 4**.

Table 4 Ford 2011 VOCs in µg/l. (BDL = below detection limit)

	WE105	WE107	WE108	WE110
1,1-Dichloroethane	5	BDL	26	4
Cis-1-2-Dichloroethene	4	BDL	4	BDL
Chloroform	10	2	BDL	BDL
1,1,1-Trichloroethane	3	BDL	16	11
Trichloroethane	35	BDL	BDL	BDL

Ford did not obtain groundwater samples in 2011 for VOC testing from WE101, WE102 and WE104.

Of the wells tested during the 2011 and 2022 investigations, VOCs were detected in samples from WE105 and WE108 during both investigations.

VOCs were not encountered in WE106, WE107 and WE110 during the 2022 investigation.

4. Summary & Conclusions

AECOM was commissioned by Univar to undertake a well condition survey and install 3 new monitoring wells at the Univar Wellingborough facility located on Links Rd, Finedon Road Industrial Estate, Wellingborough, NN8 4EY. The works were undertaken to better assess the soil and groundwater conditions at the site following a previous investigation completed in 2011.

The well condition survey concluded that all 11 historical wells were useable following some minor repair works. An additional 3 wells were installed to assess data gaps around the north-eastern and eastern boundary and in the area of the effluent treatment plant.

Soil samples collected from the 3 new boreholes were analysed for tests including metals, sulphate, PAHs, volatile organic compounds (VOCs), total petroleum hydrocarbons criteria working group (TPH CWG), phenol, glycols, ammoniacal nitrogen, chloride, fluoride, orthophosphate, cyanide, total organic carbon (TOC), acids and pH.

All the wells on site (i.e. the historical and newly installed monitoring wells) were developed 2 weeks prior to undertaking site wide groundwater sampling and testing. Samples were sent for laboratory analysis for a range of inorganic and organic determinands. For the historical wells, the newly collected data were also compared with the data provided in the 2011 investigation report. This comparison indicates that concentrations of nickel, cadmium and zinc have increased whilst arsenic has remained similar in concentration.

Site wide sulphate concentrations have generally increased since 2011, however, none are higher than the highest concentration of 839 mg/l reported by Ford in 2011. Elevated sulphate has been obtained from groundwater across the site, including up-gradient wells. Hydrogeological modelling undertaken by Ford in 2011 determined that sulphate was not considered to pose a significant potential risk to the River Ise.

The 2011 investigation report did not record any PAHs in groundwater above the detection limit. PAHs were detected in 2022 in WE101, WE103 and WE109, however, it should be noted that the reported detection limit in 2011 was much higher (10 µg/l) than the 2022 detection limits (<0.005 µg/l). Noting this, the majority of detections for PAH were localised to one location (WE101).

VOC's were detected in samples from five locations (WE101, WE102, WE104, WE105 and WE108) out of the 14 wells in total.

Detections for ammoniacal nitrogen in groundwater have been obtained from all wells located with the exception of WE101, WE103 and WE107.

Appendix A Document copies

A.1 Photos Well Condition Survey

Photo No. 1	Date: 28/02/2022	
Description: WE101 - inaccessible.		
Photo No. 2	Date: 28/02/2022	
Description: WE101 - inaccessible.		

Photo No. 3	Date: 28/02/2022	
Description: WE102 - inaccessible.		

Photo No. 4	Date: 28/02/2022	
Description: WE102 - inaccessible.		

Photo No. 5	Date: 28/02/2022	
Description: WE103 – inaccessible.		

Photo No. 6	Date: 28/02/2022	
Description: WE103 – inaccessible.		

Photo No. 7	Date: 28/02/2022	
Description: WE104 - Could not open. Well cover broken when trying to open.		

Photo No. 9	Date: 28/02/2022	
Description: WE105 - accessible.		

Photo No. 10	Date: 28/02/2022	
Description: WE105 - accessible.		

Photo No. 11	Date: 28/02/2022	
Description: WE106 - accessible.		
Photo No. 12	Date: 28/02/2022	
Description: WE107 - accessible.		

Photo No. 13	Date: 28/02/2022	
Description: WE108 – accessible, however cover is broken.		
Photo No. 14	Date: 28/02/2022	
Description: WE108 – accessible, however cover is broken.		

Photo No.	Date: 28/02/2022	
Description: WE109 - accessible.		
Photo No. 16	Date: 28/02/2022	
Description: WE109 - accessible.		

Photo No. 17	Date: 28/02/2022	
Description: WE110 – inaccessible.		

Photo No. 18	Date: 28/02/2022	
Description: WE110 – inaccessible		

Photo No. 19	Date: 28/02/2022	
Description: WE111 – accessible.		

A.2 Photos Drilling

Photo No. 1	Date: 7/03/2022	
Photo No. 2	Date: 7/03/2022	

Description:
WE203A arisings concrete and rebar.

Description:
WE203A arisings concrete and rebar.

Photo No. 3	Date: 7/03/2022	
Description: WE203 First 2 runs. 1.2-4.2m. Clay which had some hydrocarbon odour.		
Photo No. 4	Date: 7/03/2022	Description: WE203 runs 4.2-7.2m. Clay.

Photo No. 5	Date: 7/03/2022	
Description: WE202 Hand pit.		

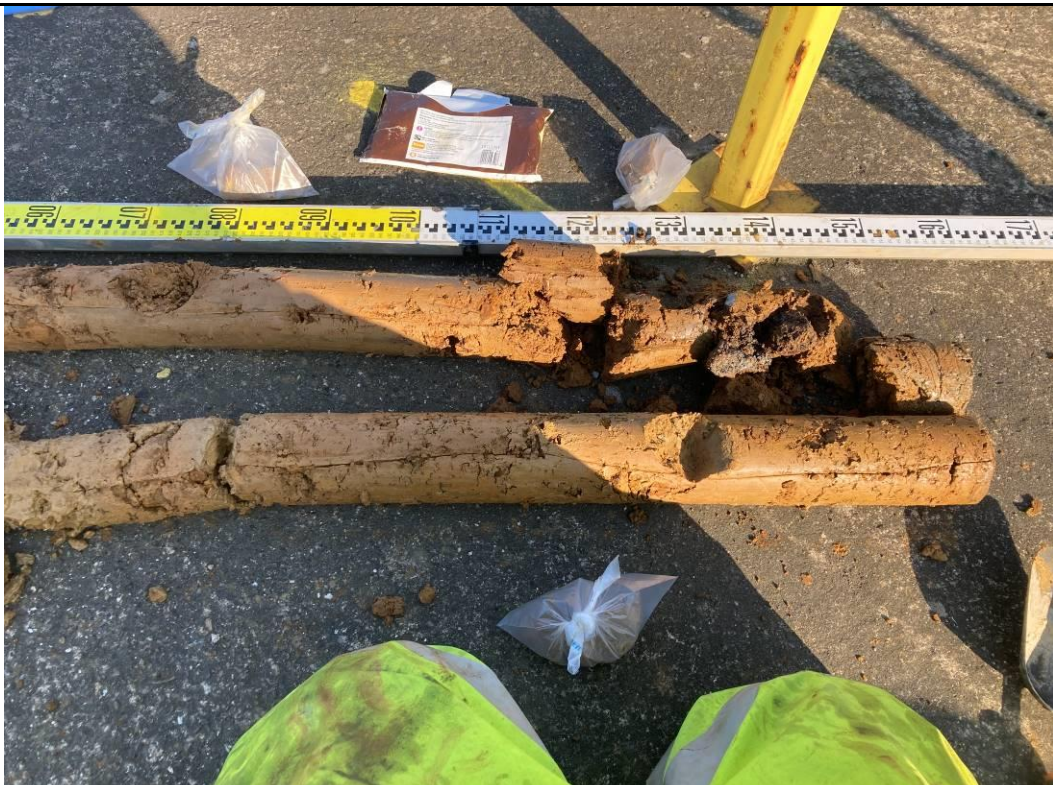
Photo No. 6	Date: 8/03/2022	
Description: WE202 first 2 runs 1.2-4.2m. Made ground and gravel and clay.		

Photo No. 7	Date: 8/03/2022	
Description: WE202 slag/kilnstone found in 1.1-2.7m.		
Photo No. 8	Date: 8/03/2022	
Description: WE202 4.2-7m. Gravel,cobbles(recovered from) and clay.		

Photo No. 9	Date: 8/03/2022	
Description: WE201 First run showing the black bottom of the made ground.		
Photo No. 10	Date: 8/03/2022	
Description: WE201 Top of first run.1.2-1.4m in this photo.		

Photo No. 11	Date: 9/03/2022	
Photo No. 12	Date: 9/03/2022	
Description: WE201 runs 1.2-4.2m. Gravelly clay.		Description: WE201 3 rd run 4.2-5.7. Grey clay.

Photo No.
13

Date:
9/03/2022

Description:

WE201
Final run. Stiff grey clay.



Appendix B AECOM Borehole Logs



AGS
REGISTERED USER 2014

Style: AGS4_AECOM_ENV_DS3 File: \\AECOM\NET\COM\ES\EM\A\MA\CH\ESTER-UK\MCR\LEGACY\UK\MCR\2P\PS\W01\DATA\PROJECTS\60623770 - PROJECT PHOENIX\WELLINGBOROUGH\AECOM\2022\G1\WORK\REPORT\APPENDIX B\AECOM\2022\B1\LOGS\WELLINGBOROUGH\ENGINEERS\LOGS.GPJ Printed: 22/04/2022 10:33:26

Client: Univar										AECOM					
Project: Wellingborough Project Phoenix, Wellingborough.										Record of Window Sampler Hole WE202					
Contract No: 60613770															
Samples & in situ Tests					Strata										
Depth	Type/No.	Test Results	PID (ppm)	Water Level	Reduced Level m(AOD)	Legend	Depth (Thickness)	DESCRIPTION	Visual/Olfactory Observations	Instrument					
0.80	E				52.10		0.23	Concrete							
					51.90		0.43	MADE GROUND comprised of light brown sandy gravel. Gravel is fine to coarse subangular to subrounded mixed lithologies.							
1.60	E				51.23		(0.67)	MADE GROUND comprised of dark brown sandy gravel with occasional brick fragments and fabric.							
							1.10	MADE GROUND comprised of stiff brown gravelly clay with occasional slag/kilnstone and roots.							
2.50	E		<1		49.63		2.70	Grey kilnstone/slag cobbles and gravel							
							(0.80)	Brown GRAVEL AND COBBLES with some fines. Gravel and cobbles are subangular mudstone. (Possible Residual Bedrock)							
4.00	E		<1		48.83		3.50	Firm brown gravelly CLAY. Gravel is fine to coarse subangular mudstone. (Possible Residual Bedrock)							
							(0.60)	Brown silty very clayey GRAVEL with low cobble content. Gravel is fine to coarse subangular mudstone. (Possible Residual Bedrock)							
5.00					48.23		4.10								
							(3.10)								
7.4					45.13		7.20	Borehole terminated at 7.20m							
GENERAL REMARKS								Boring Progress		Water Observations					
Hand pit to 1.2m. Dynamic sampled 1.2-7.2m No water ingress recorded.								Date	Time	Hole Depth	Standing Level	Strike	Rise	Time (mins)	Sealed
Exploratory hole logs should be read in conjunction with corresponding Key Sheets.															
Logged by: IM		Equipment: Comacchio GEO 305			Coordinates: (OS NGR)		Ground Level: (OS)		Date:						
Checked by: SD		Contractor: Remtech			Easting: 490190.96m		52.33m AOD		Start: 08/03/2022						
Status:					Northing: 269938.02m				End: 09/03/2022						
												Sheet 1 of 1			

Style: AGS4_AECOM_ENV_DS3 File: \\AECOM\NET\COM\ES\EM\A\MANCHESTER\UK\MCR\LEGACY\UK\MCR2\PF\SW01\DATA\PROJECTS\60623770 - PROJECT PHOENIX\WELLINGBOROUGH\B AECOM 2022\B\LOGS\WELLINGBOROUGH\ENGINEERS LOGS.GPJ Printed: 22/04/2022 10:33:27

Client: Univar							AECOM							
Project: Wellingborough Project Phoenix, Wellingborough.							Record of Window Sampler Hole WE203							
Contract No: 60613770														
Samples & in situ Tests				Strata										
Depth	Type/No.	Test Results	PID (ppm)	Water Level	Reduced Level m(AOD)	Legend	Depth (Thickness)	DESCRIPTION	Visual/Olfactory Observations	Instrument				
0.50	E		<1		52.19		0.21	Concrete	Black and brown sandy with slightly hydrocarbon odour.					
							(0.44)	MADE GROUND comprised of dark brown and black sandy gravel. Gravel is fine to coarse subangular mixed lithologies.						
					51.75		0.65	MADE GROUND composed of dark brown sandy gravel with occasional brick fragments, coal and tarmac. Gravel is angular to subangular sandstone, slate, tarmac and coal.						
1.00	E		<1		51.40		(0.35)	Firm brown slightly gravelly, sandy CLAY. Gravel is fine to medium subangular sandstone. (Possible Residual Bedrock)						
1.60	E		<1					Black and brown sandy with slightly hydrocarbon odour.						
2.00														
3.00	E		<1											
4.00					48.60		3.80	Stiff grey mottled brown CLAY. (Possible Residual Bedrock)						
5.00														
6.00														
7.00					45.20		7.20							
7.4							Borehole terminated at 7.20m							
GENERAL REMARKS							Boring Progress		Water Observations					
Hand pit to 1.2m. Dynamic sampled 1.2-4.2m. Rotary 4.2-7.2m. No water ingress recorded.							Date	Time	Hole Depth	Standing Level	Strike	Rise	Time (mins)	Sealed
Exploratory hole logs should be read in conjunction with corresponding Key Sheets.														
Logged by: IM		Equipment: Comacchio GEO 305		Coordinates: (OS NGR)		Ground Level: (OS)		Date:						
Checked by: SD		Contractor: Remtech		Easting: 490165.52m		52.40m AOD		Start: 07/03/2022						
Status:				Northing: 269933.82m				End: 07/03/2022						
							Sheet 1 of 1							

Appendix C Groundwater Level, Wellhead Parameters & Contour Plots

				29/02/2022						09/03/2022						23/03/2022			
Coordinates				Water Dips						Water Dips		PID		Purged Volume & Water Colour		Water Dips			
	Easting	Northing	Elevation	Top Of Casing	Ground Level	Dip (mOD)	Depth To Base	2011 Install Depth	Comments	Top Of Casing	Ground Level	Dips (mOD)	Depth To Base	ppm	L	Top Of Casing	Ground Level	Dips (mOD)	Depth To Base
WE101	490094.85	269869.85	55.8	x	x		x	3.3	Stuck, cannot get well cover off	1.71	1.77	54.03	2.79	<1	4 to DRY	2.12	2.16	53.64	2.79
WE102	490147.81	269844.85	54.9	x	x		x	2.9	Stuck, cannot get well cover off	1.84	1.87	53.03	2.84	<1	4 to DRY	1.92	1.97	52.93	2.92
WE103	490120.5	269747.87	57.66	x	x		x	3.3	Stuck, cannot get well cover off	1.5	1.55	56.11	3	<1	4.5 to DRY, clear	2.24	2.29	55.37	3.02
WE104	490155	269758	0	x	x		x	2.4	Stuck, cannot get well cover off. Cover fractured during removal. Inside warehouse 3.	1.43	1.48	Inside	2.41	1	4 to DRY	1.42	1.47	Inside	2.42
WE105	490174	269822	0	1.93	1.98		3.82	3.9	Inside warehouse 1.	1.94	2.01	Inside	3.83	<1	4 to DRY, brown	1.42	1.47	Inside	3.84
WE106	490202.52	269836.43	54.41	2.48	2.51	51.9	4.35	4.5	Mud at bottom of well	2.42	2.46	51.95	4.4	<1	12, brown	2.5	2.55	51.86	4.38
WE107	490248.06	269805.08	54.2	2.07	2.42	51.78	4.34	5	Ants nest cleared from top of casing. Mud at bottom of well.	2.24	2.37	51.83	4.35	<1	9, blackish	2.26	2.46	51.74	4.37
WE108	490228.74	269859.41	53.09	2.03	2.06	51.03	4.85	5	Well cover split in two. Put back on flush to the ground. No sharps protruding.	1.98	2.02	51.07	4.8	<1	18, brown	1.97	2	51.09	4.82
WE109	490207.02	269903.98	52.32	1.85	1.89	50.43	2.5	2.6		2.33	2.38	49.94	2.48	<1	4L , was purged previous day may not have recharged.	2.04	2.1	50.22	2.5
WE110	490174.8	269931.62	52.34	x	x		x	4	Stuck. Cannot get off. Metal in this area appears corroded.	1.58	1.64	50.7	3.85	<1	9 to DRY, brown	1.48	1.55	50.79	3.85
WE111	490172.45	269961.01	51.4	1.07	1.14	50.26	2.96	3.1		1.02	1.09	50.31	2.96	<1	8, blackish	1.05	1.12	50.28	2.95
WE201	490171.12	269977.06	51.33							1.69	1.83	49.5	4.67	<1	50, brown	1.68	1.83	49.5	4.65
WE202	490165.52	269933.82	52.4							2.34	2.45	49.95	4.45	<1	40, brown	2.35	2.45	49.95	4.5
WE203	490169.11	269935.88	52.41							1.78	1.92	50.49	4.1	<1	9, brown	1.14	1.26	51.15	4.1

Appendix D Laboratory Results & Tables

AECOM
1 New York Street
Manchester - Laxness Trafford
M1 4HD



Attention : Sarah Davies
Date : 17th March, 2022
Your reference : 60623770
Our reference : Test Report 22/3797 Batch 1
Location : Wellingborough
Date samples received : 9th March, 2022
Status : Final Report
Issue : 1

Twelve samples were received for analysis on 9th March, 2022 of which six were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Simon Gomery BSc

Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/3797

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-2	3-6	15-18	22-25	26-29	38-41					Please see attached notes for all abbreviations and acronyms		
Sample ID	WE201	WE202	WE202	WE203	WE203	WE201							
Depth	0.50	0.80	4.00	1.00	1.60	2.10							
COC No / misc													
Containers	J T	V J T	V J T	V J T	V J T	V J T							
Sample Date	07/03/2022	07/03/2022	08/03/2022	07/03/2022	07/03/2022	08/03/2022							
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay							
Batch Number	1	1	1	1	1	1							
Date of Receipt	09/03/2022	09/03/2022	09/03/2022	09/03/2022	09/03/2022	09/03/2022					LOD/LOR	Units	Method No.
Arsenic ^{#M}	92.6	93.6	115.4	150.9	194.9	62.0					<0.5	mg/kg	TM30/PM15
Barium ^{#M}	94	166	69	68	76	58					<1	mg/kg	TM30/PM15
Beryllium	1.9	5.2	5.6	6.6	6.9	2.8					<0.5	mg/kg	TM30/PM15
Cadmium ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					<0.1	mg/kg	TM30/PM15
Chromium ^{#M}	62.7	150.8	153.3	172.6	341.2 ^{AB}	97.9					<0.5	mg/kg	TM30/PM15
Copper ^{#M}	21	26	6	10	<1	12					<1	mg/kg	TM30/PM15
Lead ^{#M}	26	93	34	40	70	26					<5	mg/kg	TM30/PM15
Mercury ^{#M}	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					<0.1	mg/kg	TM30/PM15
Nickel ^{#M}	30.8	56.0	86.6	87.2	102.9	43.4					<0.7	mg/kg	TM30/PM15
Selenium ^{#M}	1	1	2	2	3	2					<1	mg/kg	TM30/PM15
Total Sulphate as SO ₄ ^{#M}	533	1196	427	407	765	483					<50	mg/kg	TM50/PM29
Vanadium	79	335 ^{AB}	344 ^{AB}	372 ^{AB}	656 ^{AB}	178					<1	mg/kg	TM30/PM15
Water Soluble Boron ^{#M}	3.1	3.5	2.5	2.2	3.3	3.3					<0.1	mg/kg	TM74/PM32
Zinc ^{#M}	105	341	268	320	358	293					<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene ^{#M}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Acenaphthene ^{#M}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					<0.05	mg/kg	TM4/PM8
Fluorene ^{#M}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Phenanthrene ^{#M}	0.10	0.08	<0.03	0.11	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Anthracene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Fluoranthene ^{#M}	0.14	0.21	<0.03	0.19	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Pyrene [#]	0.13	0.18	<0.03	0.16	<0.03	<0.03					<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	0.10	0.17	<0.06	0.13	<0.06	<0.06					<0.06	mg/kg	TM4/PM8
Chrysene ^{#M}	0.08	0.17	<0.02	0.12	<0.02	<0.02					<0.02	mg/kg	TM4/PM8
Benzo(b)fluoranthene ^{#M}	0.14	0.28	<0.07	0.16	<0.07	<0.07					<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	0.08	0.13	<0.04	0.06	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene ^{#M}	0.06	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	0.05	0.05	<0.04	<0.04	<0.04	<0.04					<0.04	mg/kg	TM4/PM8
PAH 16 Total	0.9	1.3	<0.6	0.9	<0.6	<0.6					<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	0.10	0.20	<0.05	0.12	<0.05	<0.05					<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.04	0.08	<0.02	0.04	<0.02	<0.02					<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	85	85	75	81	71	84					<0	%	TM4/PM8
Methyl Tertiary Butyl Ether [#]	<2	<2	<2	<2	<2	<2					<2	ug/kg	TM15/PM10
Benzene [#]	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Toluene [#]	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Ethylbenzene [#]	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
m/p-Xylene [#]	<5	<5	<5	<5	<5	<5					<5	ug/kg	TM15/PM10
o-Xylene [#]	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	93	103	107	93	101	90					<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	91	98	101	70	95	83					<0	%	TM15/PM10

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/3797

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-2	3-6	15-18	22-25	26-29	38-41					Please see attached notes for all abbreviations and acronyms		
Sample ID	WE201	WE202	WE202	WE203	WE203	WE201							
Depth	0.50	0.80	4.00	1.00	1.60	2.10							
COC No / misc													
Containers	J T	V J T	V J T	V J T	V J T	V J T							
Sample Date	07/03/2022	07/03/2022	08/03/2022	07/03/2022	07/03/2022	08/03/2022							
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay							
Batch Number	1	1	1	1	1	1							
Date of Receipt	09/03/2022	09/03/2022	09/03/2022	09/03/2022	09/03/2022	09/03/2022					LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) ^{#M}	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1					<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) ^{#M}	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1					<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1					<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) ^{#M}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) ^{#M}	<4	<4	<4	<4	<4	<4					<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) ^{#M}	<7	<7	<7	<7	<7	<7					<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) ^{#M}	<7	<7	<7	<7	<7	<7					<7	mg/kg	TM5/PM8/PM16
>C35-C40 (EH_1D_AL)	<7	<7	<7	<7	<7	<7					<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-40 (EH+HS_1D_AL)	<26	<26	<26	<26	<26	<26					<26	mg/kg	TM5/PM8/PM16/PM12/PM18
Aromatics													
>C5-EC7 (HS_1D_AR) [#]	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1					<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) [#]	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1					<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) ^{#M}	<0.1	<0.1	<0.1	<0.1 ^{SV}	<0.1	<0.1					<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) [#]	<4	<4	<4	<4	<4	<4					<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) [#]	<7	<7	<7	<7	<7	<7					<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) [#]	<7	<7	<7	<7	<7	<7					<7	mg/kg	TM5/PM8/PM16
>EC35-EC40 (EH_1D_AR)	<7	<7	<7	<7	<7	<7					<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-40 (EH+HS_1D_AR)	<26	<26	<26	<26	<26	<26					<26	mg/kg	TM5/PM8/PM16/PM12/PM18
Total aliphatics and aromatics (C5-40) (EH+HS_CU_1D_Total)	<52	<52	<52	<52	<52	<52					<52	mg/kg	TM5/PM8/PM16/PM12/PM18
Phenol ^{#M}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					<0.01	mg/kg	TM26/PM21B
Monoethylene glycol	<50	<50	<50	<50	<50	<50					<50	ug/kg	TM179/PM8
Propylene glycol	<50	<50	<50	<50	<50	<50					<50	ug/kg	TM179/PM8
Diethylene glycol	<50	<50	<50	<50	<50	<50					<50	ug/kg	TM179/PM8
Triethylene glycol	<50	<50	<50	<50	<50	<50					<50	ug/kg	TM179/PM8
Thiodiglycol	<50	<50	<50	<50	<50	<50					<50	ug/kg	TM179/PM8
Ammoniacal Nitrogen as N	7.6	<0.6	<0.6	<0.6	<0.6	11.7					<0.6	mg/kg	TM38/PM20
Chloride ^{#M}	52	108	75	98	229	192					<2	mg/kg	TM38/PM20
Fluoride	2.0	5.3	4.4 ^{AA}	8.4	3.8 ^{AA}	<1.5 ^{AB}					<0.3	mg/kg	TM173/PM20
Hexavalent Chromium [#]	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3					<0.3	mg/kg	TM38/PM20
Ortho Phosphate as PO4	<0.3	<0.3	<0.3	0.5	0.9	<0.3					<0.3	mg/kg	TM38/PM20
Chromium III	62.7	150.8	153.3	172.6	341.2 ^{AB}	97.9					<0.5	mg/kg	NONE/NONE
Free Cyanide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	mg/kg	TM89/PM45
Total Cyanide ^{#M}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	mg/kg	TM89/PM45
Total Organic Carbon [#]	1.14	1.29	0.28	1.12	0.12	0.95					<0.02	%	TM21/PM24
Acetic Acid	<15	<15	<15	<15	<15	<15					<15	mg/kg	TM127/PM108

EMT Sample No.	1-2	3-6	15-18	22-25	26-29	38-41					Please see attached notes for all abbreviations and acronyms		
Sample ID	WE201	WE202	WE202	WE203	WE203	WE201							
Depth	0.50	0.80	4.00	1.00	1.60	2.10							
COC No / misc Containers	J T	V J T	V J T	V J T	V J T	V J T							
Sample Date	07/03/2022	07/03/2022	08/03/2022	07/03/2022	07/03/2022	08/03/2022							
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay							
Batch Number	1	1	1	1	1	1							
Date of Receipt	09/03/2022	09/03/2022	09/03/2022	09/03/2022	09/03/2022	09/03/2022					LOD/LOR	Units	Method No.
SVOC MS													
Phenols													
2-Chlorophenol ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2-Methylphenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2-Nitrophenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,4-Dichlorophenol ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,4,5-Trichlorophenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Methylphenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Nitrophenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Pentachlorophenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Phenol ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
PAHs													
2-Chloronaphthalene ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2-Methylnaphthalene ^{#M}	<10	17	<10	17	<10	<10					<10	ug/kg	TM16/PM8
Phthalates													
Bis(2-ethylhexyl) phthalate	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Butylbenzyl phthalate	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Di-n-butyl phthalate	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Di-n-Octyl phthalate	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Diethyl phthalate	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Dimethyl phthalate ^{#M}	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Other SVOCs													
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
1,2,4-Trichlorobenzene ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2-Nitroaniline	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
3-Nitroaniline	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Bromophenylphenylether ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Chloroaniline	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Chlorophenylphenylether	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Nitroaniline	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Azobenzene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Bis(2-chloroethoxy)methane	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Bis(2-chloroethyl)ether	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Carbazole	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Dibenzofuran ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Hexachlorobenzene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Hexachlorobutadiene ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Hexachloroethane	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Isophorone ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
N-nitrosodi-n-propylamine ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Nitrobenzene ^{#M}	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Surrogate Recovery 2-Fluorobiphenyl	107	114	111	110	97	111					<0	%	TM16/PM8
Surrogate Recovery p-Terphenyl-d14	105	113	106	103	89	103					<0	%	TM16/PM8

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/3797

VOC Report : Solid

EMT Sample No.	1-2	3-6	15-18	22-25	26-29	38-41					Please see attached notes for all abbreviations and acronyms		
Sample ID	WE201	WE202	WE202	WE203	WE203	WE201							
Depth	0.50	0.80	4.00	1.00	1.60	2.10							
COC No / misc													
Containers	J T	V J T	V J T	V J T	V J T	V J T							
Sample Date	07/03/2022	07/03/2022	08/03/2022	07/03/2022	07/03/2022	08/03/2022							
Sample Type	Clay	Clay	Clay	Clay	Clay	Clay							
Batch Number	1	1	1	1	1	1					LOD/LOR	Units	Method No.
Date of Receipt	09/03/2022	09/03/2022	09/03/2022	09/03/2022	09/03/2022	09/03/2022							
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2					<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2	<2	<2	<2	<2					<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2	<2	<2	<2					<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1	<1	<1	<1	<1					<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2	<2	<2	<2	<2					<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2	<2	<2	<2	<2	<2					<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6	<6	<6	<6	<6					<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	<7	<7	<7	<7	<7					<7	ug/kg	TM15/PM10
trans-1-2-Dichloroethene #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
cis-1-2-Dichloroethene #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Chloroform #	<3	<3	<3	13	<3	<3					<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
Benzene #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3	<3	<3	<3	5					<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6	<6	<6	<6	<6					<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
cis-1-3-Dichloropropene	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
Toluene #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
trans-1-3-Dichloropropene	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	<5	<5	<5	<5	<5					<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Styrene	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2	<2	<2	<2					<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3	<3	<3	<3					<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5	<5	<5	<5	<5					<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	<6	<6	<6	<6	<6					<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
4-Isopropyltoluene	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
n-Butylbenzene	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7	<7	<7	<7	<7					<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4	<4	<4	<4					<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27	<27	<27	<27					<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7	<7	<7	<7	<7					<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	93	103	107	93	101	90					<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	91	98	101	70	95	83					<0	%	TM15/PM10

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
22/3797	1	WE201	0.50	2	Charlotte Taylor	17/03/2022	General Description (Bulk Analysis)	soil/stones
					Charlotte Taylor	17/03/2022	Asbestos Fibres	NAD
					Charlotte Taylor	17/03/2022	Asbestos ACM	NAD
					Charlotte Taylor	17/03/2022	Asbestos Type	NAD
22/3797	1	WE202	0.80	6	Charlotte Taylor	17/03/2022	General Description (Bulk Analysis)	soil/stones
					Charlotte Taylor	17/03/2022	Asbestos Fibres	NAD
					Charlotte Taylor	17/03/2022	Asbestos ACM	NAD
					Charlotte Taylor	17/03/2022	Asbestos Type	NAD
22/3797	1	WE203	1.00	25	Charlotte Taylor	17/03/2022	General Description (Bulk Analysis)	soil/stones
					Charlotte Taylor	17/03/2022	Asbestos Fibres	NAD
					Charlotte Taylor	17/03/2022	Asbestos ACM	NAD
					Charlotte Taylor	17/03/2022	Asbestos Type	NAD

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 22/3797

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x2 Dilution
AB	x5 Dilution

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 22/3797

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes	Yes	AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes
PM13	A visual examination of the solid sample is carried out to ascertain sample make up, colour and any other inclusions. This is not a geotechnical description.	PM0	No preparation is required.			AR	No
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes

EMT Job No: 22/3797

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes	Yes	AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil, March 2012 v4.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.	Yes	Yes	AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes	Yes	AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes	Yes	AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes

EMT Job No: 22/3797

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes	Yes	AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes	Yes	AD	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes	Yes	AR	No
TM74	Analysis of water soluble boron (20:1 extract) by ICP-OES.	PM32	Hot water soluble boron is extracted from dried and ground samples using a 20:1 ratio.	Yes	Yes	AD	Yes
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.			AR	Yes
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes	Yes	AR	Yes
TM107	Determination of Sulphide/Thiocyanate by Skalar Continuous Flow Analyser	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.			AR	Yes

EMT Job No: 22/3797

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM127	Determination of specific Volatile Fatty Acids with Liquid Chromatography and Mass Spectroscopy detection.	PM108	Water extraction for Volatile Fatty Acids			AR	Yes
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM179	Determination of Glycols using LCMS	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
NONE	No Method Code	NONE	No Method Code			AD	Yes
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

Phenol ^{#M}	TM26/PM21B	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Monoethylene glycol	TM179/PM8	ug/kg	<50	<50	<50	<50	<50	<50	<50
Propylene glycol	TM179/PM8	ug/kg	<50	<50	<50	<50	<50	<50	<50
Diethylene glycol	TM179/PM8	ug/kg	<50	<50	<50	<50	<50	<50	<50
Triethylene glycol	TM179/PM8	ug/kg	<50	<50	<50	<50	<50	<50	<50
Thiodiglycol	TM179/PM8	ug/kg	<50	<50	<50	<50	<50	<50	<50
Ammoniacal Nitrogen as N	TM38/PM20	mg/kg	<0.6	7.6	<0.6	<0.6	<0.6	<0.6	11.7
Chloride ^{#M}	TM38/PM20	mg/kg	<2	52	108	75	98	229	192
Fluoride	TM173/PM20	mg/kg	<0.3	2	5.3	4.4	8.4	3.8	<1.5
Hexavalent Chromium [#]	TM38/PM20	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Ortho Phosphate as PO4	TM38/PM20	mg/kg	<0.3	<0.3	<0.3	<0.3	0.5	0.9	<0.3
Chromium III	NONE/NONE	mg/kg	<0.5	62.7	150.8	153.3	172.6	341.2	97.9
Free Cyanide	TM89/PM45	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Cyanide ^{#M}	TM89/PM45	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Organic Carbon [#]	TM21/PM24	%	<0.02	1.14	1.29	0.28	1.12	0.12	0.95
Acetic Acid	TM127/PM108	mg/kg	<15	<15	<15	<15	<15	<15	<15
Propanoic Acid	TM127/PM108	mg/kg	<15	<15	<15	<15	<15	<15	<15
2-methyl propanoic acid / Butanoic acid	TM127/PM108	mg/kg	<2	<2	<2	<2	<2	<2	<2
3-methyl butanoic acid	TM127/PM108	mg/kg	<1	<1	<1	<1	<1	<1	<1
Pentanoic acid	TM127/PM108	mg/kg	<1	<1	<1	<1	<1	<1	<1
4-methyl pentanoic acid	TM127/PM108	mg/kg	<1	<1	<1	<1	<1	<1	<1
Hexanoic acid	TM127/PM108	mg/kg	<1	<1	<1	<1	<1	<1	<1
Heptanoic acid	TM127/PM108	mg/kg	<1	<1	<1	<1	<1	<1	<1
Sulphide	TM107/PM45	mg/kg	<10	18	<10	<10	<10	<10	39
pH ^{#M}	TM73/PM11	pH units	<0.01	7.66	8.02	7.38	8.13	7.47	6.59
Sample Type	PM13/PM0	None		Clay	Clay	Clay	Clay	Clay	Clay
Sample Colour	PM13/PM0	None		Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown	Medium Brown
Other Items	PM13/PM0	None		stones	stones	stones	stones	stones	stones
<u>Asbestos Screen & Identification</u>									
General Description (Bulk Analysis) [#]	TM65/PM42	None		soil/stones	soil/stones	-	soil/stones	-	-
Asbestos Fibres [#]	TM65/PM42	None		NAD	NAD	-	NAD	-	-
Asbestos ACM [#]	TM65/PM42	None		NAD	NAD	-	NAD	-	-
Asbestos Type [#]	TM65/PM42	None		NAD	NAD	-	NAD	-	-

AECOM
1 New York Street
Manchester - Laxness Trafford
M1 4HD



Attention : Sarah Davies
Date : 4th April, 2022
Your reference : 60623770
Our reference : Test Report 22/4748 Batch 1
Location : Wellingborough
Date samples received : 24th March, 2022
Status : Final Report
Issue : 1

Eight samples were received for analysis on 24th March, 2022 of which eight were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Paul Boden BSc
Senior Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/4748

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

EMT Sample No.	1-8	9-16	17-24	25-32	33-39	40-47	48-55	56-63			Please see attached notes for all abbreviations and acronyms		
Sample ID	WE201	WE202	WE203	WE108	WE109	WE110	WE111	DUP1					
Depth													
COC No / misc													
Containers	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z P G					
Sample Date	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022					
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water					
Batch Number	1	1	1	1	1	1	1	1					
Date of Receipt	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022			LOD/LOR	Units	Method No.
Dissolved Arsenic #	<2.5	<2.5	<2.5	<2.5	2.9	<2.5	26.0	<2.5			<2.5	ug/l	TM30/PM14
Dissolved Barium #	87	72	92	27	51	39	90	86			<3	ug/l	TM30/PM14
Dissolved Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	ug/l	TM30/PM14
Dissolved Boron	225	350	413	366	442	310	179	229			<12	ug/l	TM30/PM14
Dissolved Cadmium #	<0.5	<0.5	<0.5	<0.5	7.7	<0.5	<0.5	<0.5			<0.5	ug/l	TM30/PM14
Total Dissolved Chromium #	<1.5	5.7	<1.5	<1.5	<1.5	10.5	<1.5	<1.5			<1.5	ug/l	TM30/PM14
Dissolved Copper #	11	<7	9	<7	7	<7	45	10			<7	ug/l	TM30/PM14
Dissolved Lead #	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/l	TM30/PM14
Dissolved Mercury #	<1	<1	<1	<1	<1	<1	<1	<1			<1	ug/l	TM30/PM14
Dissolved Nickel #	7	4	17	10	47	7	10	7			<2	ug/l	TM30/PM14
Dissolved Selenium #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM30/PM14
Dissolved Vanadium #	<1.5	<1.5	1.5	<1.5	5.4	<1.5	1.9	<1.5			<1.5	ug/l	TM30/PM14
Dissolved Zinc #	19	16	16	5	730	21	6	11			<3	ug/l	TM30/PM14
Total Hardness Dissolved (as CaCO3)	507	777 ^{AB}	714 ^{AB}	805 ^{AB}	922 ^{AB}	1012 ^{AB}	627 ^{AB}	507			<1	mg/l	TM30/PM14
Total Dissolved Sulphur as S	144468 ^{AC}	128479 ^{AC}	199052 ^{AC}	200670 ^{AC}	151856 ^{AC}	160853 ^{AC}	146856 ^{AC}	123585 ^{AC}			<10	ug/l	TM30/PM14
PAH MS													
Naphthalene #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	ug/l	TM4/PM30
Acenaphthylene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Acenaphthene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Fluorene #	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Phenanthrene #	<0.005	<0.005	0.005	<0.005	0.007	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Anthracene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Fluoranthene #	<0.005	<0.005	0.005	<0.005	0.007	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Pyrene #	<0.005	<0.005	0.005	<0.005	0.014	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Benzo(a)anthracene #	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Chrysene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Benzo(b)fluoranthene #	<0.008	<0.008	0.016	<0.008	<0.008	<0.008	<0.008	<0.008			<0.008	ug/l	TM4/PM30
Benzo(a)pyrene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Indeno(123cd)pyrene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Dibenzo(ah)anthracene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
Benzo(ghi)perylene #	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	ug/l	TM4/PM30
PAH 16 Total #	<0.173	<0.173	<0.173	<0.173	<0.173	<0.173	<0.173	<0.173			<0.173	ug/l	TM4/PM30
Benzo(b)fluoranthene	<0.008	<0.008	0.012	<0.008	<0.008	<0.008	<0.008	<0.008			<0.008	ug/l	TM4/PM30
Benzo(k)fluoranthene	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008			<0.008	ug/l	TM4/PM30
PAH Surrogate % Recovery	73	71	75	72	76	79	80	73			<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1			<0.1	ug/l	TM15/PM10
Benzene #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	ug/l	TM15/PM10
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/l	TM15/PM10
Ethylbenzene #	<1	<1	<1	<1	<1	<1	<1	<1			<1	ug/l	TM15/PM10
m/p-Xylene #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
o-Xylene #	<1	<1	<1	<1	<1	<1	<1	<1			<1	ug/l	TM15/PM10
Surrogate Recovery Toluene D8	103	103	102	100	104	104	102	102			<0	%	TM15/PM10

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/4748

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
 H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

EMT Sample No.	1-8	9-16	17-24	25-32	33-39	40-47	48-55	56-63			Please see attached notes for all abbreviations and acronyms		
Sample ID	WE201	WE202	WE203	WE108	WE109	WE110	WE111	DUP1					
Depth													
COC No / misc													
Containers	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z P G					
Sample Date	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022					
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water					
Batch Number	1	1	1	1	1	1	1	1					
Date of Receipt	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022			LOD/LOR	Units	Method No.
Surrogate Recovery 4-Bromofluorobenzene	101	100	101	100	102	103	97	96			<0	%	TM15/PM10
TPH CWG													
Aliphatics													
>C5-C6 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM36/PM12
>C6-C8 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM36/PM12
>C8-C10 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM36/PM12
>C10-C12 #	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/l	TM5/PM16/PM30
>C12-C16 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
>C16-C21 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
>C21-C35 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
Total aliphatics C5-35 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
Aromatics													
>C5-EC7 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM36/PM12
>EC7-EC8 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM36/PM12
>EC8-EC10 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM36/PM12
>EC10-EC12 #	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/l	TM5/PM16/PM30
>EC12-EC16 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
>EC16-EC21 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
>EC21-EC35 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
Total aromatics C5-35 #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
Total aliphatics and aromatics(C5-35) #	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM5/PM16/PM30
PCB 28 #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	ug/l	TM17/PM30
PCB 52 #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	ug/l	TM17/PM30
PCB 101 #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	ug/l	TM17/PM30
PCB 118 #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	ug/l	TM17/PM30
PCB 138 #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	ug/l	TM17/PM30
PCB 153 #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	ug/l	TM17/PM30
PCB 180 #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	ug/l	TM17/PM30
Total 7 PCBs	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7			<0.7	ug/l	TM17/PM30
Phenol #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	mg/l	TM26/PM0
Fluoride	0.4	0.6	0.5	<0.3	0.6	0.9	0.8	0.5			<0.3	mg/l	TM173/PM0
Sulphate as SO4 #	345.8	347.7	484.1	507.1	390.9	446.9	382.5	351.5			<0.5	mg/l	TM38/PM0
Chloride #	601.5	956.7	818.3	587.7	920.5	1091.4	801.5	618.5			<0.3	mg/l	TM38/PM0
Ortho Phosphate as PO4 #	<0.06	0.07	0.09	<0.06	<0.06	<0.06	<0.06	<0.06			<0.06	mg/l	TM38/PM0
Monoethylene glycol	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM179/PM0
Propylene glycol	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM179/PM0
Diethylene glycol	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM179/PM0
Triethylene glycol	<10	<10	<10	<10	<10	<10	<10	<10			<10	ug/l	TM179/PM0

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/4748

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

[illegible]

Client Name:	AECOM	SVOC Report :	Liquid
Reference:	60623770		
Location:	Wellingborough		
Contact:	Sarah Davies		
EMT Job No:	22/4748		

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/4748

VOC Report : Liquid

EMT Sample No.	1-8	9-16	17-24	25-32	33-39	40-47	48-55	56-63			Please see attached notes for all abbreviations and acronyms		
Sample ID	WE201	WE202	WE203	WE108	WE109	WE110	WE111	DUP1					
Depth													
COC No / misc													
Containers	V HN Z P G	V HN Z P G	V HN Z P G	V HN Z P G	V HN Z P G	V HN Z P G	V HN Z P G	V HN Z P G					
Sample Date	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022	23/03/2022					
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water					
Batch Number	1	1	1	1	1	1	1	1					
Date of Receipt	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022			LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Methyl Tertiary Butyl Ether #	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1			<0.1	ug/l	TM15/PM10
Chloromethane #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
Vinyl Chloride #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	ug/l	TM15/PM10
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1			<1	ug/l	TM15/PM10
Chloroethane #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
Trichlorofluoromethane #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<3	<3	<3	4	<3	<3	<3	<3			<3	ug/l	TM15/PM10
Dichloromethane (DCM) #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
trans-1-2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3	10	<3	<3	<3	<3			<3	ug/l	TM15/PM10
cis-1-2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1			<1	ug/l	TM15/PM10
Bromochloromethane #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Chloroform #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
1,1,1-Trichloroethane #	<2	<2	<2	10	<2	<2	<2	<2			<2	ug/l	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
Carbon tetrachloride #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
1,2-Dichloroethane #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Benzene #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	ug/l	TM15/PM10
Trichloroethene (TCE) #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,2-Dichloropropane #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Dibromomethane #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
Bromodichloromethane #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
cis-1-3-Dichloropropene	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Toluene #	<5	<5	<5	<5	<5	<5	<5	<5			<5	ug/l	TM15/PM10
trans-1-3-Dichloropropene	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
1,1,2-Trichloroethane #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,3-Dichloropropane #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Dibromochloromethane #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
1,2-Dibromoethane #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Chlorobenzene #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
1,1,1,2-Tetrachloroethane #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Ethylbenzene #	<1	<1	<1	<1	<1	<1	<1	<1			<1	ug/l	TM15/PM10
m/p-Xylene #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
o-Xylene #	<1	<1	<1	<1	<1	<1	<1	<1			<1	ug/l	TM15/PM10
Styrene	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Bromoform #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
Isopropylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,1,2,2-Tetrachloroethane	<4	<4	<4	<4	<4	<4	<4	<4			<4	ug/l	TM15/PM10
Bromobenzene #	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
1,2,3-Trichloropropane #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
Propylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
2-Chlorotoluene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,3,5-Trimethylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
4-Chlorotoluene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
tert-Butylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,2,4-Trimethylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
sec-Butylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
4-Isopropyltoluene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,3-Dichlorobenzene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,4-Dichlorobenzene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
n-Butylbenzene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,2-Dichlorobenzene #	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
1,2-Dibromo-3-chloropropane	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
1,2,4-Trichlorobenzene	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
Hexachlorobutadiene	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
Naphthalene	<2	<2	<2	<2	<2	<2	<2	<2			<2	ug/l	TM15/PM10
1,2,3-Trichlorobenzene	<3	<3	<3	<3	<3	<3	<3	<3			<3	ug/l	TM15/PM10
Surrogate Recovery Toluene D8	103	103	102	100	104	104	102	102			<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	101	100	101	100	102	103	97	96			<0	%	TM15/PM10

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 22/4748

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x3 Dilution
AB	x5 Dilution
AC	x10 Dilution

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 22/4748

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM0	Not available	PM0	No preparation is required.				
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5/TM36	please refer to TM5 and TM36 for method details	PM12/PM16/PM30	please refer to PM16/PM30 and PM12 for method details	Yes			
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.				
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				

EMT Job No: 22/4748

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.	Yes			
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			
TM33	Determination of Anionic surfactants by reaction with Methylene Blue to form complexes which are analysed spectrophotometrically. (MBAS)	PM0	No preparation is required.				
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.	Yes			
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM0	No preparation is required.	Yes			

EMT Job No: 22/4748

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM107	Determination of Sulphide/Thiocyanate by Skalar Continuous Flow Analyser	PM0	No preparation is required.				
TM127	Determination of specific Volatile Fatty Acids with Liquid Chromatography and Mass Spectroscopy detection.	PM0	No preparation is required.				
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.				
TM179	Determination of Glycols using LCMS	PM0	No preparation is required.				

AECOM
1 New York Street
Manchester - Laxness Trafford
M1 4HD



Attention :	Sarah Davies
Date :	1st April, 2022
Your reference :	60623770
Our reference :	Test Report 22/4870 Batch 1
Location :	Wellingborough
Date samples received :	25th March, 2022
Status :	Final Report
Issue :	1

Seven samples were received for analysis on 25th March, 2022 of which seven were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Paul Boden BSc
Senior Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/4870

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

EMT Sample No.	1-9	10-17	18-25	26-32	33-40	41-48	49-56				Please see attached notes for all abbreviations and acronyms		
Sample ID	WE101	WE102	WE103	WE104	WE105	WE106	WE107						
Depth													
COC No / misc													
Containers	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z G	V H N Z P G	V H N Z P G	V H N Z P G						
Sample Date	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022						
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water						
Batch Number	1	1	1	1	1	1	1						
Date of Receipt	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022				LOD/LOR	Units	Method No.
Dissolved Arsenic #	2.6	45.0	<2.5	<2.5	23.4	<2.5	<2.5				<2.5	ug/l	TM30/PM14
Dissolved Barium #	39	22	21	29	42	27	31				<3	ug/l	TM30/PM14
Dissolved Beryllium	<0.5	<0.5	<0.5	<0.5	15.4	<0.5	<0.5				<0.5	ug/l	TM30/PM14
Dissolved Boron	314	166	442	102	125	133	165				<12	ug/l	TM30/PM14
Dissolved Cadmium #	<0.5	<0.5	1.3	<0.5	4.8	<0.5	<0.5				<0.5	ug/l	TM30/PM14
Total Dissolved Chromium #	<1.5	<1.5	<1.5	<1.5	32.6	<1.5	6.7				<1.5	ug/l	TM30/PM14
Dissolved Copper #	8	<7	25	13	12	<7	<7				<7	ug/l	TM30/PM14
Dissolved Lead #	<5	<5	<5	<5	<5	<5	<5				<5	ug/l	TM30/PM14
Dissolved Mercury #	<1	<1	<1	<1	<1	<1	<1				<1	ug/l	TM30/PM14
Dissolved Nickel #	44	17	85	5	411	10	<2				<2	ug/l	TM30/PM14
Dissolved Selenium #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM30/PM14
Dissolved Vanadium #	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5				<1.5	ug/l	TM30/PM14
Dissolved Zinc #	21	7	100	42	347	231	<3				<3	ug/l	TM30/PM14
Total Hardness Dissolved (as CaCO3)	528	422	1430 ^{AA}	551	945 ^{AA}	891 ^{AA}	472				<1	mg/l	TM30/PM14
Total Dissolved Sulphur as S	73725 ^{AA}	17854	258020 ^{AB}	147385 ^{AB}	167440 ^{AB}	210872 ^{AB}	40363				<10	ug/l	TM30/PM14
PAH MS													
Naphthalene #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1	ug/l	TM4/PM30
Acenaphthylene #	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
Acenaphthene #	0.018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
Fluorene #	0.056	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
Phenanthrene #	0.156	0.009	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
Anthracene #	0.022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
Fluoranthene #	0.223	0.005	<0.005	<0.005	<0.005	<0.005	0.009				<0.005	ug/l	TM4/PM30
Pyrene #	0.789	0.007	0.006	0.008	0.005	<0.005	0.007				<0.005	ug/l	TM4/PM30
Benzo(a)anthracene #	0.053	0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
Chrysene #	0.071	0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
Benzo(b)fluoranthene #	0.109	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008				<0.008	ug/l	TM4/PM30
Benzo(a)pyrene #	0.057	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
Indeno(123cd)pyrene #	0.033	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
Dibenzo(ah)anthracene #	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
Benzo(ghi)perylene #	0.041	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	ug/l	TM4/PM30
PAH 16 Total #	1.643	<0.173	<0.173	<0.173	<0.173	<0.173	<0.173				<0.173	ug/l	TM4/PM30
Benzo(b)fluoranthene	0.078	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008				<0.008	ug/l	TM4/PM30
Benzo(k)fluoranthene	0.031	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008				<0.008	ug/l	TM4/PM30
PAH Surrogate % Recovery	90	98	94	95	94	92	88				<0	%	TM4/PM30
Methyl Tertiary Butyl Ether #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3				<0.1	ug/l	TM15/PM10
Benzene #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				<0.5	ug/l	TM15/PM10
Toluene #	<5	<5	<5	<5	<5	<5	<5				<5	ug/l	TM15/PM10
Ethylbenzene #	<1	<1	<1	<1	<1	<1	<1				<1	ug/l	TM15/PM10
m/p-Xylene #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
o-Xylene #	<1	<1	<1	<1	<1	<1	<1				<1	ug/l	TM15/PM10
Surrogate Recovery Toluene D8	107	109	108	105	106	111	109				<0	%	TM15/PM10

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/4870

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle
H=H₂SO₄, Z=ZnAc, N=NaOH, HN=HNO₃

EMT Sample No.	1-9	10-17	18-25	26-32	33-40	41-48	49-56				Please see attached notes for all abbreviations and acronyms		
Sample ID	WE101	WE102	WE103	WE104	WE105	WE106	WE107						
Depth													
COC No / misc													
Containers	V H N Z P G	V H N Z P G	V H N Z P G	V H N Z G	V H N Z P G	V H N Z P G	V H N Z P G						
Sample Date	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022						
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water						
Batch Number	1	1	1	1	1	1	1						
Date of Receipt	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022				LOD/LOR	Units	Method No.
Surrogate Recovery 4-Bromofluorobenzene	111	107	105	102	104	105	104				<0	%	TM15/PM10
TPH CWG													
Aliphatics													
>C5-C6 #	<10	<10	<10	<10	<10	<10	<10				<10	ug/l	TM36/PM12
>C6-C8 #	<10	<10	<10	<10	<10	<10	<10				<10	ug/l	TM36/PM12
>C8-C10 #	15	<10	<10	<10	<10	<10	<10				<10	ug/l	TM36/PM12
>C10-C12 #	<5	<5	<5	<5	<5	<5	<5				<5	ug/l	TM5/PM16/PM30
>C12-C16 #	<10	<10	180	<10	<10	<10	<10				<10	ug/l	TM5/PM16/PM30
>C16-C21 #	<10	<10	530	<10	<10	<10	<10				<10	ug/l	TM5/PM16/PM30
>C21-C35 #	<10	<10	3070	<10	<10	<10	<10				<10	ug/l	TM5/PM16/PM30
Total aliphatics C5-35 #	15	<10	3780	<10	<10	<10	<10				<10	ug/l	TM5/PM16/PM30
Aromatics													
>C5-EC7 #	<10	<10	<10	<10	<10	<10	<10				<10	ug/l	TM36/PM12
>EC7-EC8 #	<10	<10	<10	<10	<10	<10	<10				<10	ug/l	TM36/PM12
>EC8-EC10 #	<10	<10	<10	<10	<10	<10	<10				<10	ug/l	TM36/PM12
>EC10-EC12 #	<5	<5	<5	<5	<5	<5	<5				<5	ug/l	TM5/PM16/PM30
>EC12-EC16 #	<10	<10	<10	<10	<10	<10	<10				<10	ug/l	TM5/PM16/PM30
>EC16-EC21 #	<10	<10	<10	<10	<10	<10	<10				<10	ug/l	TM5/PM16/PM30
>EC21-EC35 #	<10	<10	<10	<10	<10	<10	<10				<10	ug/l	TM5/PM16/PM30
Total aromatics C5-35 #	<10	<10	<10	<10	<10	<10	<10				<10	ug/l	TM5/PM16/PM30
Total aliphatics and aromatics(C5-35) #	15	<10	3780	<10	<10	<10	<10				<10	ug/l	TM5/PM16/PM30
PCB 28 #	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1	ug/l	TM17/PM30
PCB 52 #	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1	ug/l	TM17/PM30
PCB 101 #	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1	ug/l	TM17/PM30
PCB 118 #	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1	ug/l	TM17/PM30
PCB 138 #	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1	ug/l	TM17/PM30
PCB 153 #	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1	ug/l	TM17/PM30
PCB 180 #	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1	ug/l	TM17/PM30
Total 7 PCBs	<0.7	-	<0.7	<0.7	<0.7	<0.7	<0.7				<0.7	ug/l	TM17/PM30
Phenol #	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01				<0.01	mg/l	TM26/PM0
Fluoride	1.2	-	1.0	0.4	11.6	0.4	0.4				<0.3	mg/l	TM173/PM0
Sulphate as SO4 #	167.1	-	500.6	330.6	403.1	403.1	116.7				<0.5	mg/l	TM38/PM0
Chloride #	1465.1	-	1436.3	354.1	791.6	144.5	168.6				<0.3	mg/l	TM38/PM0
Ortho Phosphate as PO4 #	<0.06	-	<0.06	<0.06	0.10	<0.06	<0.06				<0.06	mg/l	TM38/PM0
Monoethylene glycol	<10	-	<10	<10	<10	<10	<10				<10	ug/l	TM179/PM0
Propylene glycol	<10	-	<10	<10	<10	<10	<10				<10	ug/l	TM179/PM0
Diethylene glycol	<10	-	<10	<10	<10	<10	<10				<10	ug/l	TM179/PM0
Triethylene glycol	<10	-	<10	<10	<10	<10	<10				<10	ug/l	TM179/PM0

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/4870

SVOC Report : Liquid

EMT Sample No.	1-9	18-25	26-32	33-40	41-48	49-56					Please see attached notes for all abbreviations and acronyms		
Sample ID	WE101	WE103	WE104	WE105	WE106	WE107							
Depth													
COC No / misc													
Containers	V HN Z P G	V HN Z P G	V HN Z G	V HN Z P G	V HN Z P G	V HN Z P G							
Sample Date	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022							
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water							
Batch Number	1	1	1	1	1	1					LOD/LOR	Units	Method No.
Date of Receipt	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022							
SVOC MS													
Phenols													
2-Chlorophenol #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
2-Methylphenol #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
2-Nitrophenol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
2,4-Dichlorophenol #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
2,4-Dimethylphenol	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
2,4,5-Trichlorophenol #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
2,4,6-Trichlorophenol	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
4-Chloro-3-methylphenol #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
4-Methylphenol	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
4-Nitrophenol	<10	<10	<10	<10	<10	<10					<10	ug/l	TM16/PM30
Pentachlorophenol	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Phenol	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
PAHs													
2-Chloronaphthalene #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
2-Methylnaphthalene #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Phthalates													
Bis(2-ethylhexyl) phthalate	10	<5	<5	<5	<5	<5					<5	ug/l	TM16/PM30
Butylbenzyl phthalate	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Di-n-butyl phthalate #	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5					<1.5	ug/l	TM16/PM30
Di-n-Octyl phthalate	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Diethyl phthalate #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Dimethyl phthalate	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Other SVOCs													
1,2-Dichlorobenzene #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
1,2,4-Trichlorobenzene #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
1,3-Dichlorobenzene #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
1,4-Dichlorobenzene #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
2-Nitroaniline	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
2,4-Dinitrotoluene #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
2,6-Dinitrotoluene	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
3-Nitroaniline	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
4-Bromophenylphenylether #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
4-Chloroaniline	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
4-Chlorophenylphenylether #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
4-Nitroaniline	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
Azobenzene #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
Bis(2-chloroethoxy)methane #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
Bis(2-chloroethyl)ether #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Carbazole #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
Dibenzofuran #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
Hexachlorobenzene #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Hexachlorobutadiene #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Hexachlorocyclopentadiene	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Hexachloroethane #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Isophorone #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
N-nitrosodi-n-propylamine #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5					<0.5	ug/l	TM16/PM30
Nitrobenzene #	<1	<1	<1	<1	<1	<1					<1	ug/l	TM16/PM30
Surrogate Recovery 2-Fluorobiphenyl	96	103	116	117	126	120					<0	%	TM16/PM30
Surrogate Recovery p-Terphenyl-d14	106	109	124	123	134	132					<0	%	TM16/PM30

Element Materials Technology

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies
EMT Job No: 22/4870

VOC Report : Liquid

EMT Sample No.	1-9	10-17	18-25	26-32	33-40	41-48	49-56				Please see attached notes for all abbreviations and acronyms		
Sample ID	WE101	WE102	WE103	WE104	WE105	WE106	WE107						
Depth													
COC No / misc													
Containers	V HN Z P G	V HN Z P G	V HN Z P G	V HN Z G	V HN Z P G	V HN Z P G	V HN Z P G						
Sample Date	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022	24/03/2022						
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water						
Batch Number	1	1	1	1	1	1	1						
Date of Receipt	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022				LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Methyl Tertiary Butyl Ether #	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3				<0.1	ug/l	TM15/PM10
Chloromethane #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
Vinyl Chloride #	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1	ug/l	TM15/PM10
Bromomethane	<1	<1	<1	<1	<1	<1	<1				<1	ug/l	TM15/PM10
Chloroethane #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
Trichlorofluoromethane #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
Dichloromethane (DCM) #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
trans-1-2-Dichloroethene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
cis-1-2-Dichloroethene #	4	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
2,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1				<1	ug/l	TM15/PM10
Bromochloromethane #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Chloroform #	<2	<2	<2	20	8	<2	<2				<2	ug/l	TM15/PM10
1,1,1-Trichloroethane #	<2	<2	<2	<2	3	<2	<2				<2	ug/l	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
Carbon tetrachloride #	<2	<2	<2	4	<2	<2	<2				<2	ug/l	TM15/PM10
1,2-Dichloroethane #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Benzene #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				<0.5	ug/l	TM15/PM10
Trichloroethene (TCE) #	11	<3	<3	24	19	<3	<3				<3	ug/l	TM15/PM10
1,2-Dichloropropane #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Dibromomethane #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
Bromodichloromethane #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
cis-1-3-Dichloropropene	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Toluene #	<5	<5	<5	<5	<5	<5	<5				<5	ug/l	TM15/PM10
trans-1-3-Dichloropropene	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
1,1,2-Trichloroethane #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Tetrachloroethene (PCE) #	52	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
1,3-Dichloropropane #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Dibromochloromethane #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
1,2-Dibromoethane #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Chlorobenzene #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
1,1,1,2-Tetrachloroethane #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Ethylbenzene #	<1	<1	<1	<1	<1	<1	<1				<1	ug/l	TM15/PM10
m/p-Xylene #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
o-Xylene #	<1	<1	<1	<1	<1	<1	<1				<1	ug/l	TM15/PM10
Styrene	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Bromoform #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
Isopropylbenzene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
1,1,2,2-Tetrachloroethane	<4	<4	<4	<4	<4	<4	<4				<4	ug/l	TM15/PM10
Bromobenzene #	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
1,2,3-Trichloropropane #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
Propylbenzene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
2-Chlorotoluene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
1,3,5-Trimethylbenzene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
4-Chlorotoluene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
tert-Butylbenzene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
1,2,4-Trimethylbenzene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
sec-Butylbenzene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
4-Isopropyltoluene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
1,3-Dichlorobenzene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
1,4-Dichlorobenzene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
n-Butylbenzene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
1,2-Dichlorobenzene #	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
1,2-Dibromo-3-chloropropane	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
1,2,4-Trichlorobenzene	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
Hexachlorobutadiene	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
Naphthalene	<2	<2	<2	<2	<2	<2	<2				<2	ug/l	TM15/PM10
1,2,3-Trichlorobenzene	<3	<3	<3	<3	<3	<3	<3				<3	ug/l	TM15/PM10
Surrogate Recovery Toluene D8	107	109	108	105	106	111	109				<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	111	107	105	102	104	105	104				<0	%	TM15/PM10

Client Name: AECOM
Reference: 60623770
Location: Wellingborough
Contact: Sarah Davies

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 22/4870

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x5 Dilution
AB	x10 Dilution

HWOL ACRONYMS AND OPERATORS USED

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	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 22/4870

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM0	Not available	PM0	No preparation is required.				
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5/TM36	please refer to TM5 and TM36 for method details	PM12/PM16/PM30	please refer to PM16/PM30 and PM12 for method details	Yes			
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.				
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				

EMT Job No: 22/4870

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.	Yes			
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry); WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes			
TM33	Determination of Anionic surfactants by reaction with Methylene Blue to form complexes which are analysed spectrophotometrically. (MBAS)	PM0	No preparation is required.				
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.	Yes			
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM0	No preparation is required.	Yes			

EMT Job No: 22/4870

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM107	Determination of Sulphide/Thiocyanate by Skalar Continuous Flow Analyser	PM0	No preparation is required.				
TM127	Determination of specific Volatile Fatty Acids with Liquid Chromatography and Mass Spectroscopy detection.	PM0	No preparation is required.				
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.				
TM179	Determination of Glycols using LCMS	PM0	No preparation is required.				

Appendix E Low Flow Sample Reports

Low-Flow Test Report:

Test Date / Time: 24/03/2022 10:05:13
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE101 Well Diameter: 5 cm Total Depth: 2.78 m Initial Depth to Water: 2.16 m	Pump Type: Peri Estimated Total Volume Pumped: 510 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.3 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
--	--	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/03/2022 10:05	00:00	7.18 pH	15.76 °C	0.64 µS/cm	9.25 mg/L	0.00 NTU	202.8 mV	216.00 cm	120.00 ml/min
24/03/2022 10:05	00:15	7.22 pH	15.72 °C	0.92 µS/cm	8.00 mg/L	129.01 NTU	197.0 mV	216.00 cm	120.00 ml/min
24/03/2022 10:05	00:45	7.28 pH	13.29 °C	4,111.6 µS/cm	6.83 mg/L	105.58 NTU	190.6 mV	216.00 cm	120.00 ml/min
24/03/2022 10:06	01:15	7.25 pH	11.83 °C	4,234.8 µS/cm	6.37 mg/L	83.58 NTU	190.8 mV	216.00 cm	120.00 ml/min
24/03/2022 10:06	01:45	7.23 pH	11.11 °C	4,294.0 µS/cm	6.10 mg/L	86.21 NTU	191.2 mV	216.00 cm	120.00 ml/min
24/03/2022 10:07	02:15	7.23 pH	10.94 °C	4,434.2 µS/cm	5.93 mg/L	75.19 NTU	190.8 mV	216.00 cm	120.00 ml/min
24/03/2022 10:07	02:45	7.21 pH	10.76 °C	4,457.4 µS/cm	5.89 mg/L	83.41 NTU	191.9 mV	216.00 cm	120.00 ml/min
24/03/2022 10:08	03:15	7.18 pH	10.64 °C	4,463.8 µS/cm	5.86 mg/L	79.46 NTU	193.1 mV	216.00 cm	120.00 ml/min
24/03/2022 10:08	03:45	7.17 pH	10.60 °C	4,470.5 µS/cm	5.92 mg/L	75.47 NTU	193.7 mV	2.40 cm	120.00 ml/min
24/03/2022 10:09	04:15	7.16 pH	10.50 °C	4,473.1 µS/cm	6.00 mg/L	74.23 NTU	194.0 mV	2.40 cm	120.00 ml/min

Samples

Sample ID:	Description:
WE101	Grab sample/shortened test due to low head and low recharge

Low-Flow Test Report:

Test Date / Time: 24/03/2022 10:55:59
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE102 Well Diameter: 5 cm Total Depth: 2.92 m Initial Depth to Water: 1.97 m	Pump Type: Peri Estimated Total Volume Pumped: 1680.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 80 ml/min Final Draw Down: 0.48 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
--	--	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/03/2022 10:55	00:00	7.84 pH	16.12 °C	3.01 µS/cm	9.88 mg/L	0.11 NTU	191.3 mV	197.00 cm	140.00 ml/min
24/03/2022 10:56	00:13	7.41 pH	16.24 °C	3.12 µS/cm	9.15 mg/L	0.00 NTU	197.1 mV	197.00 cm	140.00 ml/min
24/03/2022 11:01	05:13	7.08 pH	12.26 °C	1,435.9 µS/cm	1.10 mg/L	36.89 NTU	133.5 mV	238.00 cm	110.00 ml/min
24/03/2022 11:06	10:13	7.06 pH	14.46 °C	1,424.0 µS/cm	0.84 mg/L	28.41 NTU	113.9 mV	245.00 cm	80.00 ml/min
24/03/2022 11:11	15:13	7.16 pH	13.57 °C	1,402.4 µS/cm	0.94 mg/L	29.41 NTU	99.7 mV	245.00 cm	80.00 ml/min

Samples

Sample ID:	Description:
WE106	Test stopped early low recharge low head

Low-Flow Test Report:

Test Date / Time: 24/03/2022 13:35:50
Project: Wellingborough (2)
Operator Name: Ian Muir

Location Name: WE103 Well Diameter: 5 cm Total Depth: 3.02 m Initial Depth to Water: 2.5 m	Pump Type: Peri Estimated Total Volume Pumped: 1384 ml Flow Cell Volume: 130 ml Final Flow Rate: 160 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
---	---	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/03/2022 13:35	00:00	6.91 pH	15.49 °C	4,673.2 µS/cm	2.44 mg/L	1.54 NTU	214.4 mV	250.00 cm	160.00 ml/min
24/03/2022 13:36	00:30	6.98 pH	14.59 °C	4,833.7 µS/cm	1.86 mg/L	1.12 NTU	213.4 mV	250.00 cm	160.00 ml/min
24/03/2022 13:36	01:00	7.00 pH	13.81 °C	4,861.4 µS/cm	1.65 mg/L	0.41 NTU	213.5 mV	250.00 cm	160.00 ml/min
24/03/2022 13:37	01:30	7.00 pH	13.58 °C	4,864.6 µS/cm	1.49 mg/L	0.26 NTU	214.9 mV	250.00 cm	160.00 ml/min
24/03/2022 13:37	02:00	7.00 pH	13.41 °C	4,857.4 µS/cm	1.36 mg/L	0.33 NTU	215.6 mV	250.00 cm	160.00 ml/min
24/03/2022 13:38	02:30	6.98 pH	13.30 °C	4,858.4 µS/cm	1.26 mg/L	0.62 NTU	217.4 mV	250.00 cm	160.00 ml/min
24/03/2022 13:38	02:39	6.98 pH	13.31 °C	4,854.5 µS/cm	1.22 mg/L	0.72 NTU	217.5 mV	250.00 cm	160.00 ml/min
24/03/2022 13:39	03:39	6.97 pH	13.13 °C	4,841.2 µS/cm	1.09 mg/L	0.16 NTU	218.9 mV	250.00 cm	160.00 ml/min
24/03/2022 13:40	04:39	6.97 pH	12.59 °C	4,825.4 µS/cm	0.98 mg/L	0.08 NTU	219.2 mV	250.00 cm	160.00 ml/min
24/03/2022 13:41	05:39	6.99 pH	12.48 °C	4,826.5 µS/cm	0.93 mg/L	0.83 NTU	218.1 mV	250.00 cm	160.00 ml/min
24/03/2022 13:42	06:39	7.01 pH	12.44 °C	4,800.3 µS/cm	1.04 mg/L	48.02 NTU	217.1 mV	250.00 cm	160.00 ml/min
24/03/2022 13:43	07:39	7.02 pH	12.42 °C	4,801.6 µS/cm	1.16 mg/L	14.85 NTU	216.1 mV	250.00 cm	160.00 ml/min
24/03/2022 13:44	08:39	7.03 pH	12.50 °C	4,766.1 µS/cm	1.22 mg/L	4.47 NTU	215.3 mV	250.00 cm	160.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

WE103	Grab sample due to low head
-------	-----------------------------

Low-Flow Test Report:

Test Date / Time: 24/03/2022 12:22:25
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE104 Well Diameter: 5 cm Total Depth: 2.42 m Initial Depth to Water: 1.47 m	Pump Type: Peri Estimated Total Volume Pumped: 618.667 ml Flow Cell Volume: 130 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.23 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
--	---	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/03/2022 12:22	00:00	5.82 pH	14.57 °C	2.00 µS/cm	9.13 mg/L	11.33 NTU	242.2 mV	147.00 cm	160.00 ml/min
24/03/2022 12:22	00:12	6.13 pH	12.64 °C	1,974.6 µS/cm	8.63 mg/L	6.76 NTU	234.9 mV	147.00 cm	160.00 ml/min
24/03/2022 12:22	00:22	6.25 pH	12.78 °C	1,959.1 µS/cm	8.06 mg/L	3.76 NTU	231.0 mV	147.00 cm	160.00 ml/min
24/03/2022 12:23	00:52	6.48 pH	11.66 °C	1,931.1 µS/cm	7.51 mg/L	1.82 NTU	223.0 mV	147.00 cm	160.00 ml/min
24/03/2022 12:23	01:22	6.62 pH	11.18 °C	1,958.7 µS/cm	7.26 mg/L	0.81 NTU	218.7 mV	160.00 cm	160.00 ml/min
24/03/2022 12:24	01:52	6.73 pH	10.79 °C	1,962.8 µS/cm	7.20 mg/L	2.37 NTU	216.2 mV	160.00 cm	160.00 ml/min
24/03/2022 12:24	02:22	6.81 pH	10.61 °C	1,961.7 µS/cm	7.23 mg/L	4.74 NTU	214.7 mV	163.00 cm	160.00 ml/min
24/03/2022 12:25	02:52	6.87 pH	10.40 °C	1,965.8 µS/cm	7.35 mg/L	2.01 NTU	213.9 mV	163.00 cm	160.00 ml/min
24/03/2022 12:25	03:22	6.92 pH	10.36 °C	1,963.6 µS/cm	7.46 mg/L	1.47 NTU	213.9 mV	170.00 cm	160.00 ml/min
24/03/2022 12:26	03:52	6.96 pH	10.31 °C	1,965.4 µS/cm	7.60 mg/L	1.60 NTU	213.9 mV	170.00 cm	160.00 ml/min

Samples

Sample ID:	Description:
WE104	

Low-Flow Test Report:

Test Date / Time: 24/03/2022 11:41:49
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE105 Well Diameter: 5 cm Total Depth: 3.84 m Initial Depth to Water: 2 m	Pump Type: Peri Estimated Total Volume Pumped: 1628 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.65 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
---	---	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/03/2022 11:41	00:00	7.38 pH	20.80 °C	0.41 µS/cm	7.88 mg/L	0.17 NTU	151.9 mV	200.00 cm	160.00 ml/min
24/03/2022 11:46	05:00	4.09 pH	11.79 °C	3,082.9 µS/cm	2.07 mg/L	8.06 NTU	260.3 mV	233.00 cm	120.00 ml/min
24/03/2022 11:51	10:00	3.82 pH	11.34 °C	2,861.7 µS/cm	2.13 mg/L	12.33 NTU	265.7 mV	255.00 cm	120.00 ml/min
24/03/2022 11:52	10:14	3.82 pH	11.39 °C	2,854.8 µS/cm	2.13 mg/L	16.43 NTU	266.6 mV	255.00 cm	100.00 ml/min
24/03/2022 11:53	11:14	3.80 pH	11.35 °C	2,835.5 µS/cm	2.19 mg/L	12.82 NTU	266.5 mV	259.00 cm	100.00 ml/min
24/03/2022 11:54	12:14	3.73 pH	11.39 °C	2,819.0 µS/cm	2.29 mg/L	10.75 NTU	265.6 mV	265.00 cm	100.00 ml/min

Samples

Sample ID:	Description:
WE105	Stopped early because of low recharge

Low-Flow Test Report:

Test Date / Time: 24/03/2022 09:14:50
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE106 Total Depth: 4.38 m Initial Depth to Water: 2.5 m	Pump Type: Peri Estimated Total Volume Pumped: 8250 ml Flow Cell Volume: 130 ml Final Flow Rate: 330 ml/min Final Draw Down: 0.07 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
--	---	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/03/2022 09:14	00:00	7.03 pH	11.14 °C	2,623.1 µS/cm	0.75 mg/L	115.29 NTU	207.6 mV	250.00 cm	220.00 ml/min
24/03/2022 09:19	05:00	6.87 pH	10.36 °C	2,554.1 µS/cm	0.21 mg/L	65.00 NTU	215.1 mV	257.00 cm	220.00 ml/min
24/03/2022 09:24	10:00	6.84 pH	10.23 °C	1,567.0 µS/cm	0.29 mg/L	31.61 NTU	211.6 mV	257.00 cm	250.00 ml/min
24/03/2022 09:29	15:00	6.78 pH	10.12 °C	1,360.5 µS/cm	0.13 mg/L	14.47 NTU	214.1 mV	257.00 cm	300.00 ml/min
24/03/2022 09:34	20:00	6.78 pH	9.94 °C	1,376.2 µS/cm	0.11 mg/L	2.98 NTU	214.0 mV	257.00 cm	330.00 ml/min
24/03/2022 09:39	25:00	6.77 pH	9.96 °C	1,345.0 µS/cm	0.07 mg/L	0.87 NTU	212.8 mV	257.00 cm	330.00 ml/min
24/03/2022 09:44	30:00	6.81 pH	9.97 °C	1,332.7 µS/cm	0.05 mg/L	0.00 NTU	209.6 mV	257.00 cm	330.00 ml/min

Samples

Sample ID:	Description:
WE106	

Low-Flow Test Report:

Test Date / Time: 24/03/2022 08:26:58
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE107 Well Diameter: 5 cm Total Depth: 4.37 m Initial Depth to Water: 2.43 m	Pump Type: Peri Estimated Total Volume Pumped: 5100 ml Flow Cell Volume: 130 ml Final Flow Rate: 240 ml/min Final Draw Down: 0.03 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
--	--	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/03/2022 08:26	00:00	7.42 pH	13.09 °C	0.48 µS/cm	8.11 mg/L	1,374.2 NTU	194.9 mV	243.00 cm	160.00 ml/min
24/03/2022 08:31	05:00	6.98 pH	9.78 °C	1,123.1 µS/cm	0.99 mg/L	292.94 NTU	207.8 mV	246.00 cm	160.00 ml/min
24/03/2022 08:36	10:00	6.91 pH	9.74 °C	1,121.9 µS/cm	0.73 mg/L	154.47 NTU	211.0 mV	246.00 cm	220.00 ml/min
24/03/2022 08:41	15:00	6.90 pH	9.77 °C	1,144.8 µS/cm	0.44 mg/L	124.55 NTU	211.1 mV	246.00 cm	240.00 ml/min
24/03/2022 08:46	20:00	6.90 pH	9.73 °C	1,137.3 µS/cm	0.36 mg/L	81.69 NTU	210.7 mV	246.00 cm	240.00 ml/min
24/03/2022 08:51	25:00	6.93 pH	9.71 °C	1,134.4 µS/cm	0.26 mg/L	34.48 NTU	208.4 mV	246.00 cm	240.00 ml/min

Samples

Sample ID:	Description:
WE107	

Low-Flow Test Report:

Test Date / Time: 23/03/2022 15:26:09
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE108 Total Depth: 4.82 m Initial Depth to Water: 2 m	Pump Type: Peri Estimated Total Volume Pumped: 3650.667 ml Flow Cell Volume: 130 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.17 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
--	---	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
23/03/2022 15:26	00:00	6.80 pH	12.65 °C	2,432.5 µS/cm	1.38 mg/L	78.40 NTU	154.0 mV	200.00 cm	160.00 ml/min
23/03/2022 15:26	00:30	6.72 pH	12.23 °C	2,431.5 µS/cm	0.89 mg/L	89.26 NTU	158.1 mV	200.00 cm	160.00 ml/min
23/03/2022 15:27	01:00	6.65 pH	11.99 °C	2,391.8 µS/cm	0.56 mg/L	115.22 NTU	161.3 mV	200.00 cm	160.00 ml/min
23/03/2022 15:27	01:30	6.60 pH	11.82 °C	2,375.2 µS/cm	0.41 mg/L	113.98 NTU	163.8 mV	200.00 cm	160.00 ml/min
23/03/2022 15:28	02:00	6.55 pH	11.75 °C	2,351.2 µS/cm	0.35 mg/L	104.18 NTU	166.3 mV	200.00 cm	160.00 ml/min
23/03/2022 15:28	02:30	6.54 pH	11.65 °C	2,334.0 µS/cm	0.31 mg/L	106.54 NTU	167.1 mV	200.00 cm	160.00 ml/min
23/03/2022 15:28	02:49	6.52 pH	11.58 °C	2,338.0 µS/cm	0.29 mg/L	96.74 NTU	168.5 mV	200.00 cm	160.00 ml/min
23/03/2022 15:33	07:49	6.52 pH	11.44 °C	2,636.3 µS/cm	0.19 mg/L	84.06 NTU	168.3 mV	215.00 cm	160.00 ml/min
23/03/2022 15:38	12:49	6.57 pH	11.43 °C	2,676.2 µS/cm	0.15 mg/L	57.69 NTU	166.0 mV	217.00 cm	160.00 ml/min
23/03/2022 15:43	17:49	6.62 pH	11.40 °C	2,669.6 µS/cm	0.13 mg/L	30.55 NTU	163.9 mV	217.00 cm	160.00 ml/min
23/03/2022 15:48	22:49	6.63 pH	11.36 °C	2,691.4 µS/cm	0.09 mg/L	26.67 NTU	162.9 mV	217.00 cm	160.00 ml/min

Samples

Sample ID:	Description:
WE108	

Low-Flow Test Report:

Test Date / Time: 23/03/2022 15:01:49
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE109 Total Depth: 2.5 m Initial Depth to Water: 2.1 m	Pump Type: Peri Estimated Total Volume Pumped: 229.333 ml Flow Cell Volume: 130 ml Final Flow Rate: 160 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
---	---	--

Test Notes:
Grab sample

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
23/03/2022 15:01	00:00	6.83 pH	17.12 °C	3,591.9 µS/cm	1.96 mg/L	36.54 NTU	141.1 mV	210.00 cm	160.00 ml/min
23/03/2022 15:02	00:26	6.83 pH	17.29 °C	3,594.4 µS/cm	1.94 mg/L	33.80 NTU	142.0 mV	210.00 cm	160.00 ml/min
23/03/2022 15:02	00:56	6.83 pH	16.79 °C	3,274.1 µS/cm	1.98 mg/L	49.44 NTU	141.7 mV	210.00 cm	160.00 ml/min
23/03/2022 15:03	01:26	6.83 pH	15.82 °C	3,053.7 µS/cm	2.06 mg/L	40.93 NTU	142.1 mV	210.00 cm	160.00 ml/min

Samples

Sample ID:	Description:
WE109	Grab sample

Low-Flow Test Report:

Test Date / Time: 23/03/2022 13:21:35
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE110 Well Diameter: 5 cm Total Depth: 3.85 m Initial Depth to Water: 1.55 m	Pump Type: Peri Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 130 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.26 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
--	--	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
23/03/2022 13:21	00:00	6.73 pH	16.38 °C	3,599.3 µS/cm	1.07 mg/L	202.33 NTU	99.0 mV	155.00 cm	160.00 ml/min
23/03/2022 13:26	05:00	7.01 pH	12.28 °C	4,362.4 µS/cm	0.87 mg/L	32.78 NTU	96.6 mV	169.00 cm	160.00 ml/min
23/03/2022 13:31	10:00	7.00 pH	12.26 °C	4,353.6 µS/cm	0.59 mg/L	25.01 NTU	99.5 mV	176.00 cm	160.00 ml/min
23/03/2022 13:36	15:00	7.01 pH	12.16 °C	4,340.1 µS/cm	0.42 mg/L	18.88 NTU	101.2 mV	179.00 cm	160.00 ml/min
23/03/2022 13:41	20:00	7.04 pH	12.06 °C	4,393.2 µS/cm	0.32 mg/L	11.01 NTU	101.4 mV	179.00 cm	160.00 ml/min
23/03/2022 13:46	25:00	7.07 pH	11.95 °C	4,425.5 µS/cm	0.25 mg/L	13.90 NTU	99.7 mV	181.00 cm	160.00 ml/min

Samples

Sample ID:	Description:
WE110	

Low-Flow Test Report:

Test Date / Time: 23/03/2022 11:31:54
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE111 Well Diameter: 5 cm Total Depth: 2.95 m Initial Depth to Water: 1.12 m	Pump Type: Peri Estimated Total Volume Pumped: 5100 ml Flow Cell Volume: 130 ml Final Flow Rate: 80 ml/min Final Draw Down: 0.86 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
--	--	--

Test Notes:
Stopped due to low recharge

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
23/03/2022 11:31	00:00	6.66 pH	20.21 °C	2,796.3 µS/cm	0.71 mg/L	64.88 NTU	106.7 mV	112.00 cm	300.00 ml/min
23/03/2022 11:36	05:00	6.71 pH	10.85 °C	1,808.5 µS/cm	2.24 mg/L	2.08 NTU	118.8 mV	141.00 cm	160.00 ml/min
23/03/2022 11:41	10:00	6.74 pH	10.89 °C	2,281.7 µS/cm	0.95 mg/L	1.06 NTU	117.1 mV	162.00 cm	160.00 ml/min
23/03/2022 11:46	15:00	6.87 pH	11.11 °C	3,017.7 µS/cm	1.50 mg/L	2.29 NTU	98.1 mV	176.00 cm	120.00 ml/min
23/03/2022 11:51	20:00	6.95 pH	13.79 °C	3,058.1 µS/cm	3.57 mg/L	9.08 NTU	81.1 mV	180.00 cm	200.00 ml/min
23/03/2022 11:56	25:00	6.96 pH	11.46 °C	4,695.8 µS/cm	1.12 mg/L	25.96 NTU	69.8 mV	187.00 cm	80.00 ml/min
23/03/2022 12:01	30:00	7.00 pH	12.25 °C	4,015.5 µS/cm	0.42 mg/L	7.92 NTU	59.3 mV	198.00 cm	80.00 ml/min

Samples

Sample ID:	Description:
WE111	

Low-Flow Test Report:

Test Date / Time: 23/03/2022 10:25:49
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE201 Well Diameter: 5 cm Total Depth: 4.65 m Initial Depth to Water: 1.83 m	Pump Type: Peri Estimated Total Volume Pumped: 7720.667 ml Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.07 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
--	--	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
23/03/2022 10:25	00:00	6.58 pH	16.40 °C	2,900.8 µS/cm	1.15 mg/L	253.31 NTU	151.9 mV	183.00 cm	160.00 ml/min
23/03/2022 10:30	05:00	6.50 pH	11.21 °C	2,777.5 µS/cm	0.39 mg/L	305.43 NTU	153.4 mV	187.00 cm	160.00 ml/min
23/03/2022 10:33	07:19	6.48 pH	11.13 °C	2,776.8 µS/cm	0.30 mg/L	270.08 NTU	152.6 mV	188.00 cm	160.00 ml/min
23/03/2022 10:38	12:19	6.55 pH	11.02 °C	2,770.5 µS/cm	0.21 mg/L	220.34 NTU	145.2 mV	189.00 cm	250.00 ml/min
23/03/2022 10:43	17:19	6.58 pH	10.99 °C	2,777.1 µS/cm	0.12 mg/L	171.94 NTU	137.4 mV	190.00 cm	300.00 ml/min
23/03/2022 10:48	22:19	6.61 pH	11.00 °C	2,763.1 µS/cm	0.08 mg/L	133.67 NTU	132.1 mV	190.00 cm	300.00 ml/min
23/03/2022 10:53	27:19	6.61 pH	10.99 °C	2,763.0 µS/cm	0.08 mg/L	108.99 NTU	129.1 mV	190.00 cm	300.00 ml/min
23/03/2022 10:58	32:19	6.60 pH	10.93 °C	2,766.7 µS/cm	0.06 mg/L	74.29 NTU	124.9 mV	190.00 cm	300.00 ml/min

Samples

Sample ID:	Description:
WE201 & DUP1	

Low-Flow Test Report:

Test Date / Time: 23/03/2022 14:05:00
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE202 Well Diameter: 5 cm Total Depth: 4.5 m Initial Depth to Water: 2.45 m	Pump Type: Peri Estimated Total Volume Pumped: 6700 ml Flow Cell Volume: 130 ml Final Flow Rate: 260 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
---	--	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
23/03/2022 14:05	00:00	7.10 pH	16.35 °C	4,087.2 µS/cm	1.26 mg/L	147.65 NTU	99.4 mV	245.00 cm	160.00 ml/min
23/03/2022 14:10	05:00	6.79 pH	13.66 °C	3,423.6 µS/cm	0.81 mg/L	54.73 NTU	112.6 mV	245.00 cm	200.00 ml/min
23/03/2022 14:15	10:00	6.72 pH	12.47 °C	3,394.2 µS/cm	0.31 mg/L	46.30 NTU	121.2 mV	245.00 cm	220.00 ml/min
23/03/2022 14:20	15:00	6.69 pH	12.23 °C	3,525.0 µS/cm	0.23 mg/L	27.58 NTU	126.2 mV	245.00 cm	240.00 ml/min
23/03/2022 14:25	20:00	6.71 pH	11.97 °C	3,646.7 µS/cm	0.21 mg/L	15.22 NTU	127.3 mV	245.00 cm	260.00 ml/min
23/03/2022 14:30	25:00	6.73 pH	11.86 °C	3,711.8 µS/cm	0.13 mg/L	8.97 NTU	128.1 mV	245.00 cm	260.00 ml/min
23/03/2022 14:35	30:00	6.74 pH	11.86 °C	3,687.8 µS/cm	0.11 mg/L	6.68 NTU	128.8 mV	245.00 cm	260.00 ml/min

Samples

Sample ID:	Description:
WE202	

Low-Flow Test Report:

Test Date / Time: 23/03/2022 12:30:34
Project: Wellingborough
Operator Name: Ian Muir

Location Name: WE203 Well Diameter: 5 cm Total Depth: 4.1 m Initial Depth to Water: 1.26 m	Pump Type: Peri Estimated Total Volume Pumped: 4052 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.84 m	Instrument Used: Aqua TROLL 500 Serial Number: 713430
---	---	--

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
23/03/2022 12:30	00:00	6.80 pH	11.90 °C	3,347.7 µS/cm	0.66 mg/L	257.91 NTU	96.7 mV	126.00 cm	160.00 ml/min
23/03/2022 12:31	00:57	6.66 pH	11.26 °C	3,336.0 µS/cm	0.35 mg/L	101.55 NTU	106.0 mV	126.00 cm	160.00 ml/min
23/03/2022 12:36	05:57	6.61 pH	10.71 °C	3,335.4 µS/cm	0.20 mg/L	68.73 NTU	113.3 mV	170.00 cm	160.00 ml/min
23/03/2022 12:41	10:57	6.69 pH	10.61 °C	3,344.4 µS/cm	0.24 mg/L	67.42 NTU	110.6 mV	182.00 cm	100.00 ml/min
23/03/2022 12:46	15:57	6.76 pH	10.54 °C	3,376.6 µS/cm	0.26 mg/L	157.02 NTU	106.9 mV	196.00 cm	100.00 ml/min
23/03/2022 12:51	20:57	6.79 pH	10.45 °C	3,422.5 µS/cm	0.44 mg/L	233.35 NTU	103.8 mV	210.00 cm	160.00 ml/min
23/03/2022 12:56	25:57	6.80 pH	10.38 °C	3,465.3 µS/cm	0.71 mg/L	229.83 NTU	101.5 mV	210.00 cm	100.00 ml/min
23/03/2022 13:01	30:57	6.81 pH	10.31 °C	3,484.1 µS/cm	0.90 mg/L	230.31 NTU	100.2 mV	210.00 cm	100.00 ml/min

Samples

Sample ID:	Description:
WE203	WE203

APPENDIX C – Drawings

Site Layout

Site Drainage





NOTES

ORDNANCE SURVEY, (C) CROWN COPYRIGHT 2023. ALL RIGHTS RESERVED.
LICENCE NUMBER 100022432

DRAWING IS A SITE SCHEMATIC

ANY ANOMALIES ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF OLIVE COMPLIANCE

LEGEND

PERMIT BOUNDARY

E
ELECTRICITY / GENERATOR ISOLATION POINT

SM
SCRAP METAL

SA
SMOKING AREA

FA
FIRE ASSEMBLY

WOOD
40 YARD SKIP

FIXED PLANT

CCTV

PERMANENTLY OPEN ENTRANCE

CLOSEABLE ROLLER SHUTTER DOORS

I
INTERCEPTOR

Q
QUARANTINE AREA - 8M X 8.5M X 5

IMPERMEABLE SURFACE

COSHH

SCRAP
40 YARD SCRAP METAL SKIP

W
WASH BAY

FUEL TANKS

PALLET SANDBAGS

SPILL KITS

Q SKIP

ACCESS ROUTES

ANDERSON SHELTER 40FT X 40FT

SURFACE WATER CATCHMENT

TANK PUMPSWITCH TO SEND TO BUNDED STORAGE AREA

FOUL WATER DISCHARGE

H
TOWNS WATER IN

YARD DRAIN

SITE
THINK3E
15-21 LINKS RD, FINEDON ROAD INDUSTRIAL ESTATE,
WELLINGBOROUGH NN8 4EY

PROJECT
EA PERMIT APPLICATION

DRAWING TITLE
SITE LAYOUT PLAN

DRAWING NUMBER
003

REVISION
7 - 26.03.25

SCALE
1:1500 @ A3

DATE
31.04.23



NOTES	
ORDNANCE SURVEY, (C) CROWN COPYRIGHT 2021. ALL RIGHTS RESERVED. LICENCE NUMBER 100022432	
LEGEND	
PERMIT BOUNDARY FOUL DRAINAGE SURFACE WATER DRAINAGE ELECTRICITY WATER SUPPLY INTERCEPTOR (INT) MANHOLE MANHOLE SM SCRAP METAL SA SMOKING AREA FA FIRE ASSEMBLY WOOD 40 YARD SKIP FIXED PLANT PIPE/FLEXI HOSE FROM THE PUMP TO CARRY WATER TO THE BUND H HYDRANT H HYDRANT DRAINS EFFLUENT DRAINS EFFLUENT MANHOLE DRAINS EFFLUENT GULLEY MONITORING WELL NEW SURFACE WATER ROUTE	
SITE THINK3E 15-21 LINKS RD, FINEDON ROAD INDUSTRIAL ESTATE, WELLINGBOROUGH NN8 4EY	
PROJECT EA PERMIT APPLICATION	
DRAWING TITLE SITE DRAINAGE PLAN	
DRAWING NUMBER 005	REVISION 2 - 27.03.25
SCALE 1:5000 @ A3	DATE 31.04.23
OLIVE Compliance	