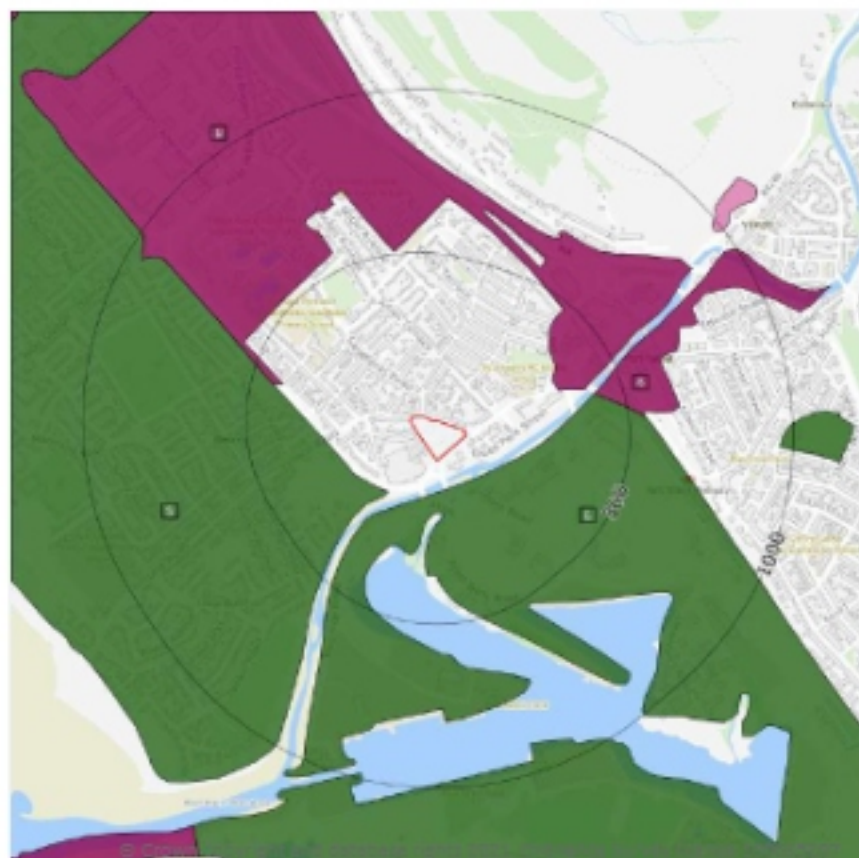


Geology 1:50,000 scale - Artificial and made ground



- 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

4

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 115](#)

ID	Location	LEX Code	Description	Rock description
1	92m S	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
2	177m SW	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
3	308m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	412m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

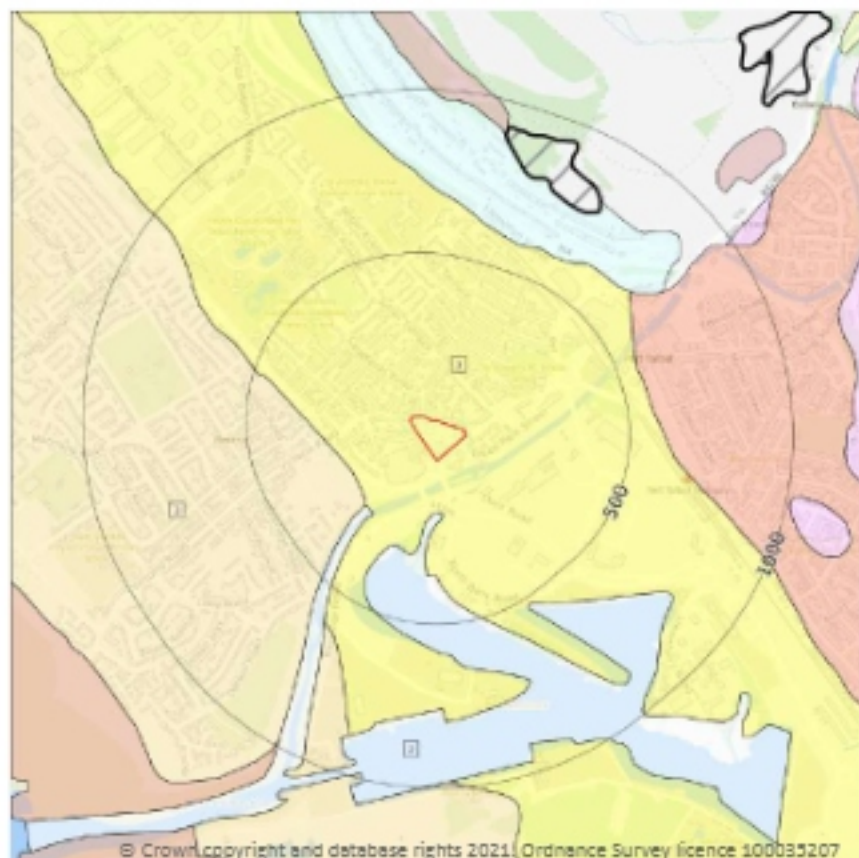
Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial 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 - Superficial



— Site Outline
Search buffers in metres (m)
 Landslip (30k)
Superficial geology (30k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

3

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 117](#)

ID	Location	LEX Code	Description	Rock description
1	On site	TFD-XCZ5	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND
2	158m S	SUPNM-UNKNOWN	SUPERFICIAL THEME NOT MAPPED [FOR DIGITAL MAP USE ONLY]	UNKNOWN/UNCLASSIFIED ENTRY
3	232m SW	BSA-S	BLOWN SAND	SAND

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

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).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Moderate	Very Low

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)

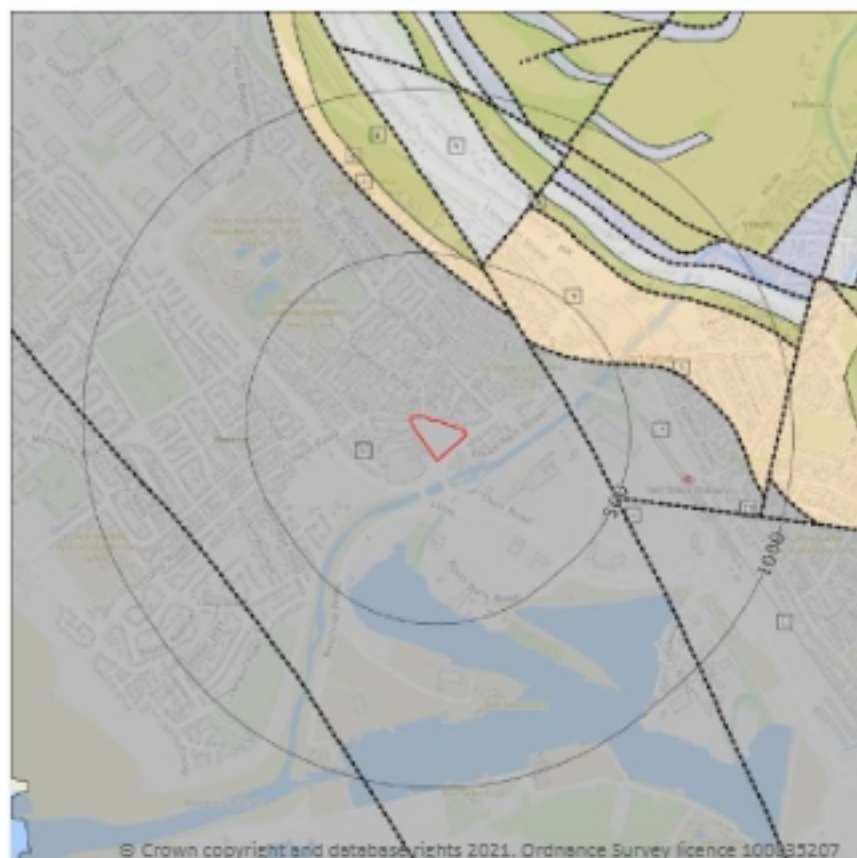
Records within 50m

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

7

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 119**

ID	Location	LEX Code	Description	Rock age
1	On site	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	308m NE	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
4	335m NE	SWUCM-MDSS	SOUTH WALES UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	376m NE	SWUCM-MDSS	SOUTH WALES UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	475m N	LLFB-SDST	LLYNFI MEMBER - SANDSTONE	WESTPHALIAN
9	493m N	LLFB-MDSS	LLYNFI MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	497m E	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

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	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

5

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.

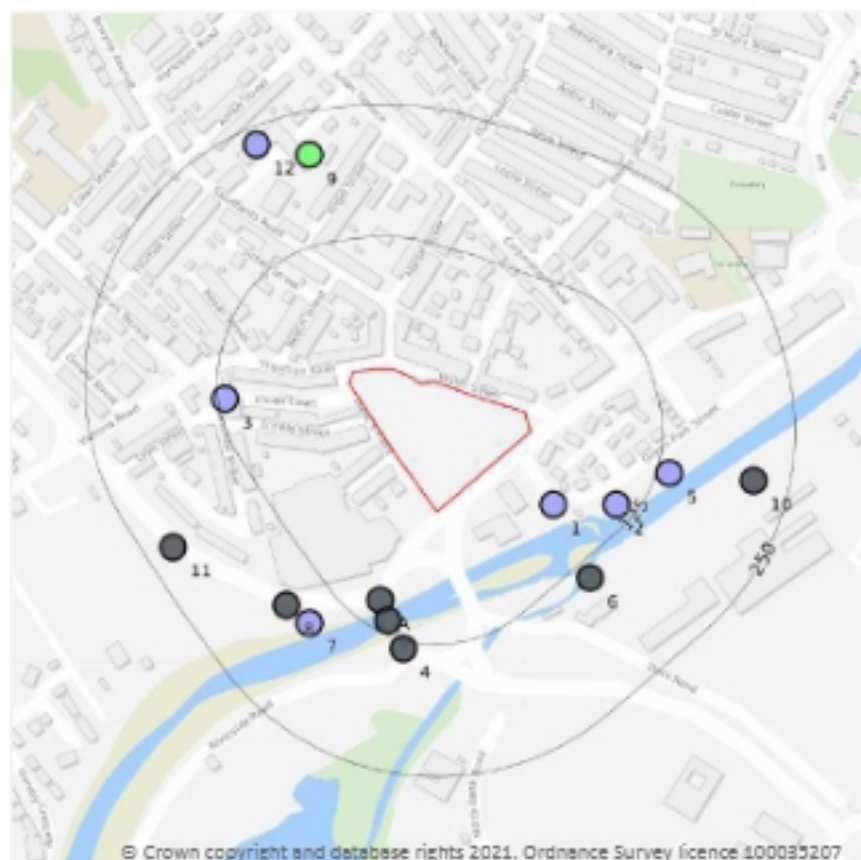
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 119**

ID	Location	Category	Description
3	308m NE	FAULT	Fault, inferred, displacement unknown
5	335m NE	FOSSIL_HORIZON	Marine band
7	376m NE	FOSSIL_HORIZON	Marine band
10	493m N	FAULT	Fault, inferred, displacement unknown

ID	Location	Category	Description
11	497m E	FAULT	Fault, inferred, displacement unknown

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

14

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.

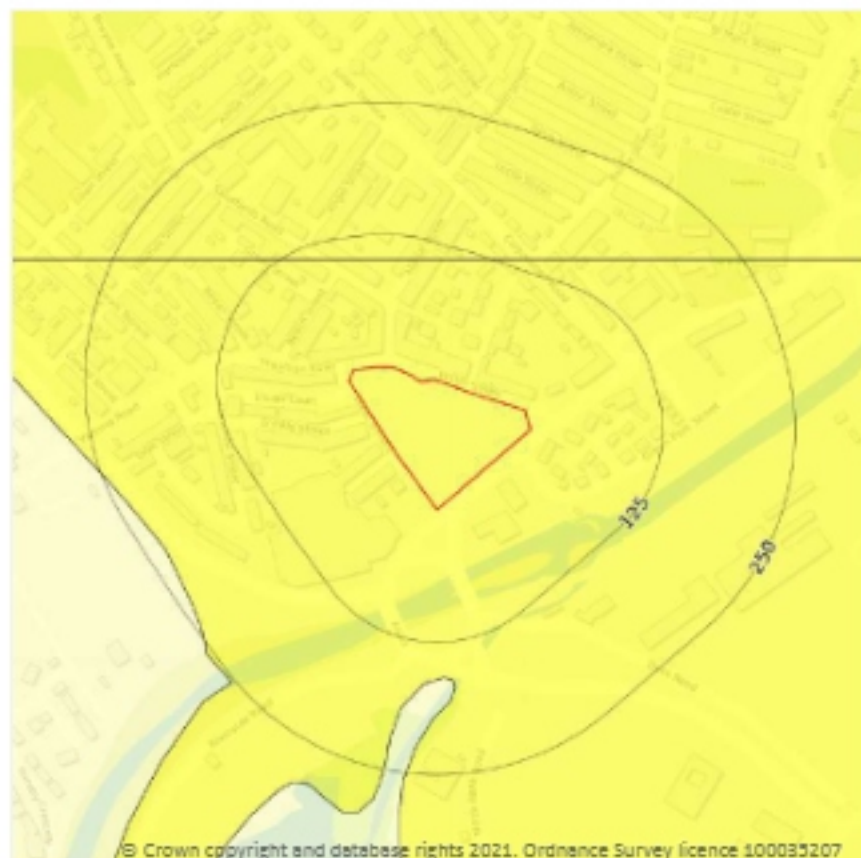
Features are displayed on the Boreholes map on [page 122](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	66m SE	276010 189770	PORT TALBOT, HOLST SOIL ENGINEERING. 4	9.15	N	370710
A	99m SW	275847 189680	PORT TALBOT PDR STAGE ONE 15	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
2	107m SE	276070 189770	RIVER AFAN PORT TALBOT 1	8.0	N	370830
A	112m SW	275854 189661	PORT TALBOT PDR STAGE ONE 16	-	Y	N/A
3	118m W	275700 189870	PORT TALBOT, HOLST SOIL ENGINEERING. NO.12	6.65	N	370712
4	133m S	275868 189634	PORT TALBOT PDR STAGE ONE 17	-	Y	N/A
5	137m E	276120 189800	RIVER AFAN PORT TALBOT 2	8.0	N	370831
6	141m SE	276045 189701	PORT TALBOT PDR STAGE ONE 18	-	Y	N/A
7	160m SW	275780 189658	R. AFAN OUTFALL SCHEME 8	10.0	N	370826
8	167m SW	275758 189675	PORT TALBOT PDR STAGE ONE 14	-	Y	N/A
9	209m N	275780 190100	MICHNA STREET PORT TALBOT 2	12.4	N	371756
10	215m E	276199 189793	PORT TALBOT PDR STAGE ONE 19	-	Y	N/A
11	224m SW	275651 189730	PORT TALBOT PDR STAGE ONE TP 7	-	Y	N/A
12	233m NW	275730 190110	MICHNA STREET PORT TALBOT 1	9.45	N	371755

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

1

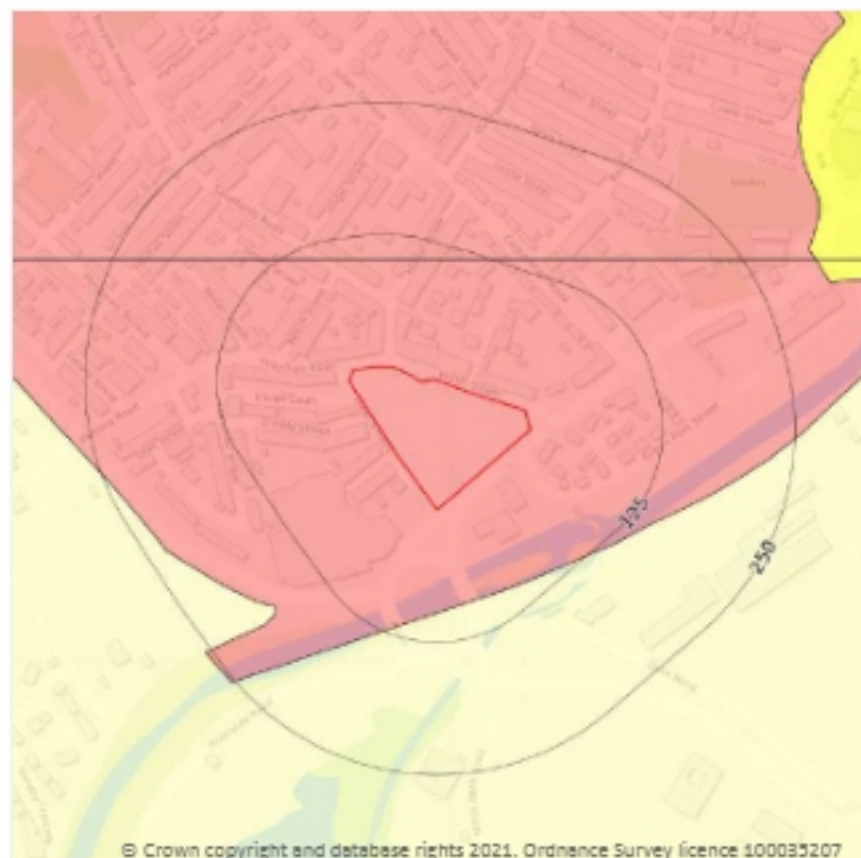
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 124](#)

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low 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

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17.2 Running sands

Records within 50m

1

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.

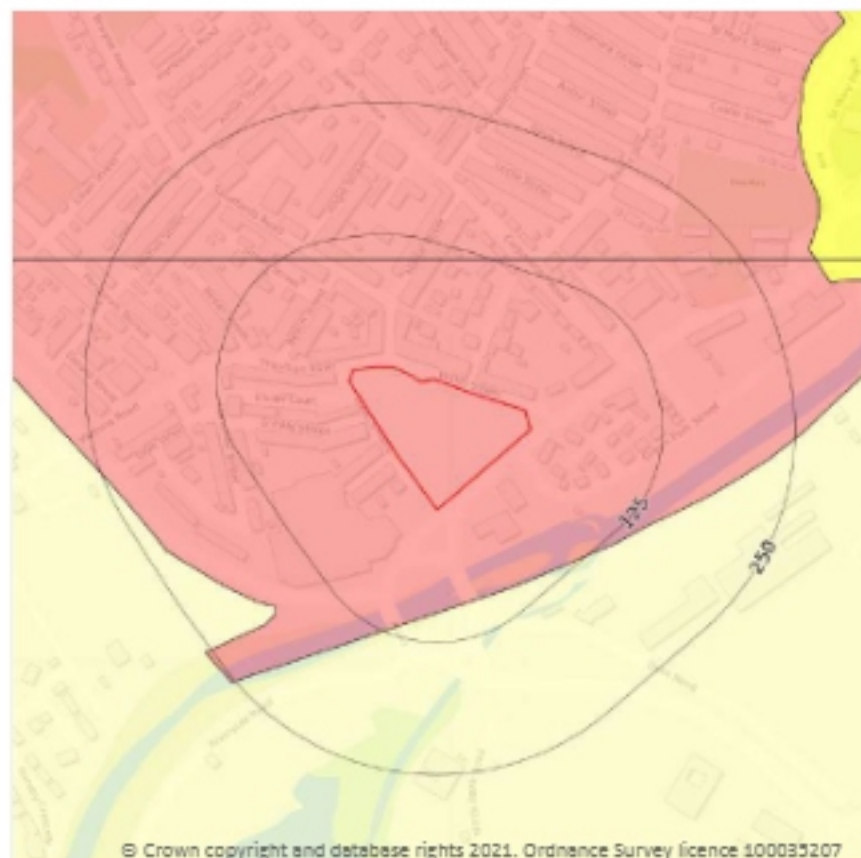
Features are displayed on the Natural ground subsidence - Running sands map on [page 125](#)

Location	Hazard rating	Details
On site	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

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17.3 Compressible deposits

Records within 50m

1

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 126](#)

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

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

1

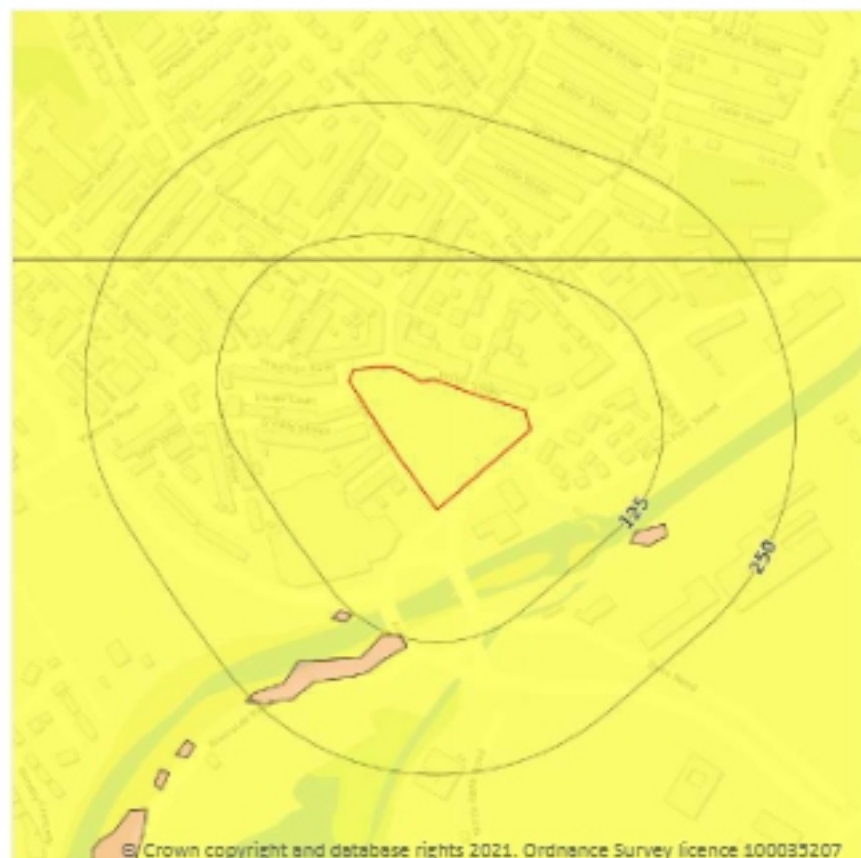
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 127](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not 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

1

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 128](#)

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.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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.

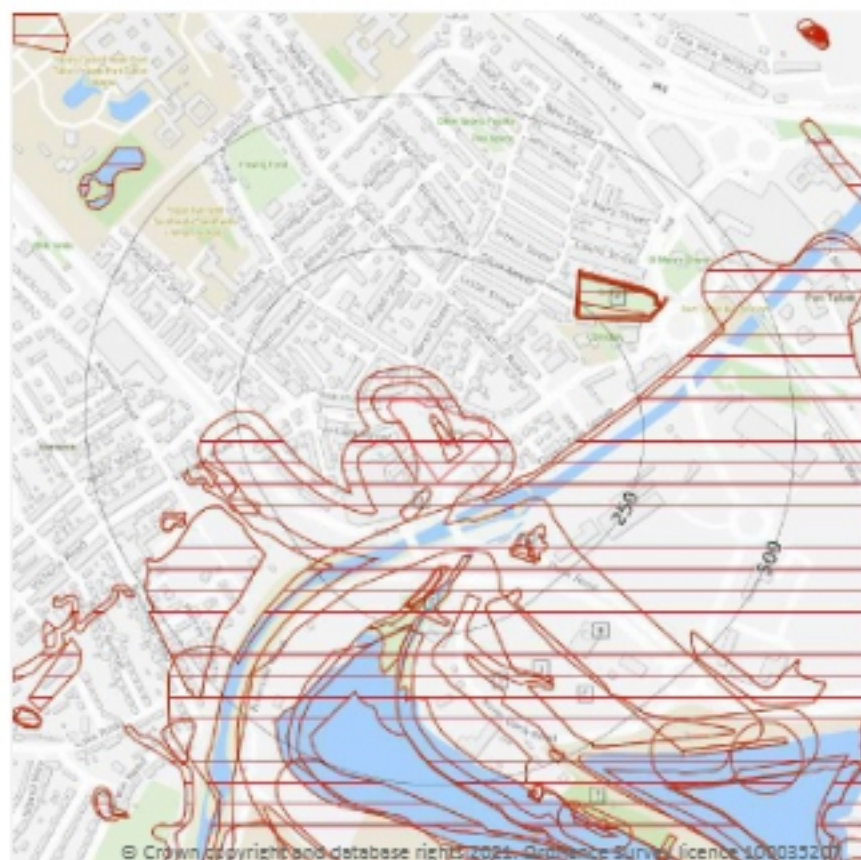
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on page 129

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.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
 - Natural cavities (Point)
 - BritPits
 - Surface ground workings
 - Underground workings
 - Historical Mineral Planning Areas
 - Mining Cavities
- 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 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.

18.2 BritPits

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

25

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, ground workings and natural cavities map on [page 131](#)

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Old Dock	1914	1:10560
A	On site	Pond	1897	1:10560
A	On site	Pond	1914	1:10560
B	On site	Dock	1921	1:10560
2	20m SW	Unspecified Pit	1897	1:10560
B	46m S	Old Dock	1947	1:10560
3	117m S	Docks	1965	1:10560
C	131m S	Water Body	1914	1:10560
C	131m S	Water Body	1921	1:10560
C	138m S	Pond	1979	1:10000
C	144m S	Unspecified Ground Workings	1947	1:10560
D	156m SE	Pond	1897	1:10560
D	162m SE	Pond	1897	1:10560
D	164m SE	Pond	1914	1:10560
D	164m SE	Pond	1921	1:10560
E	192m S	Old Dock	1897	1:10560
F	215m SE	Water Body	1914	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	215m SE	Water Body	1921	1:10560
G	228m NE	Cemetery	1957	1:10560
G	228m NE	Cemetery	1947	1:10560
G	228m NE	Cemetery	1914	1:10560
G	228m NE	Cemetery	1921	1:10560
G	229m NE	Cemetery	1978	1:10000
G	229m NE	Cemetery	1995	1:10000
G	248m NE	Cemetery	1897	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 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 is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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.

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 Mining cavities

Records within 1000m	0
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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.

18.8 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.

18.9 Coal mining

Records on site	1
-----------------	---

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

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 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.

18.11 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

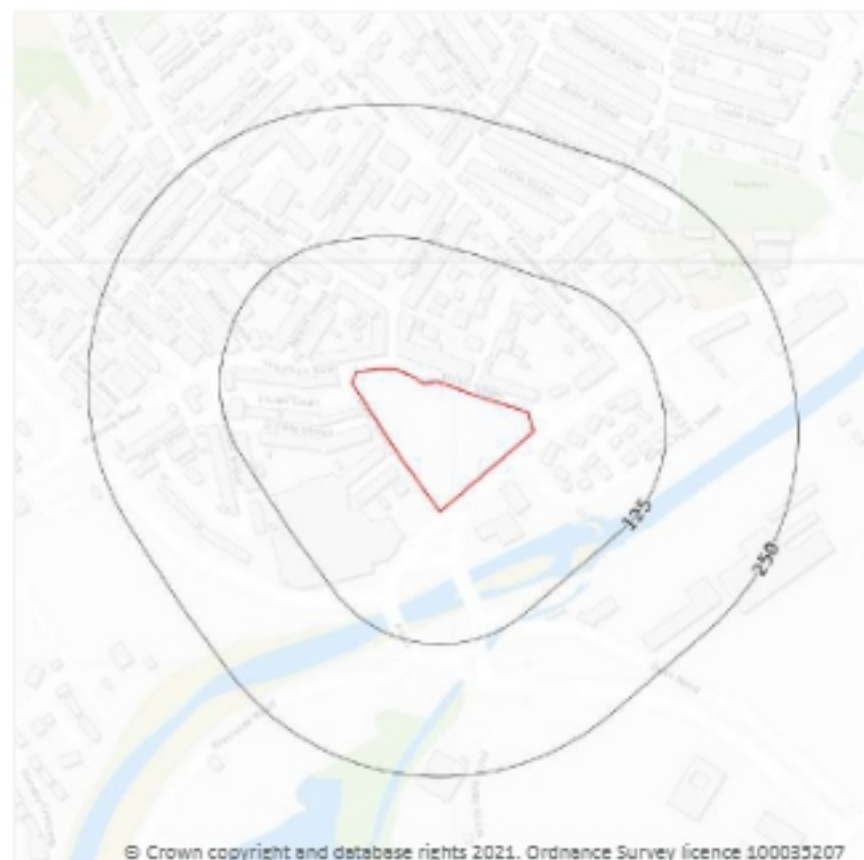
18.13 Clay mining

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 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%

19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on [page 136](#)

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

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
11m SE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
11m E	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

11

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).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	30	5.3	275	189	1.4	79	114	53	54
On site	32	5.6	301	207	1.4	79	125	55	61
On site	34	5.9	336	231	1.5	81	162	64	70
On site	35	6.1	364	250	1.6	81	173	66	77



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
2m NW	33	5.8	335	230	1.5	77	138	58	72
11m E	36	6.3	384	264	1.6	83	191	71	81
14m NE	34	5.9	360	247	1.6	80	153	63	76
18m W	30	5.3	269	185	1.3	77	109	51	53
22m NW	32	5.6	305	210	1.4	76	123	53	65
37m SE	35	6.1	354	243	1.5	83	178	68	75
46m NE	38	6.7	433	297	1.7	83	212	77	102

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

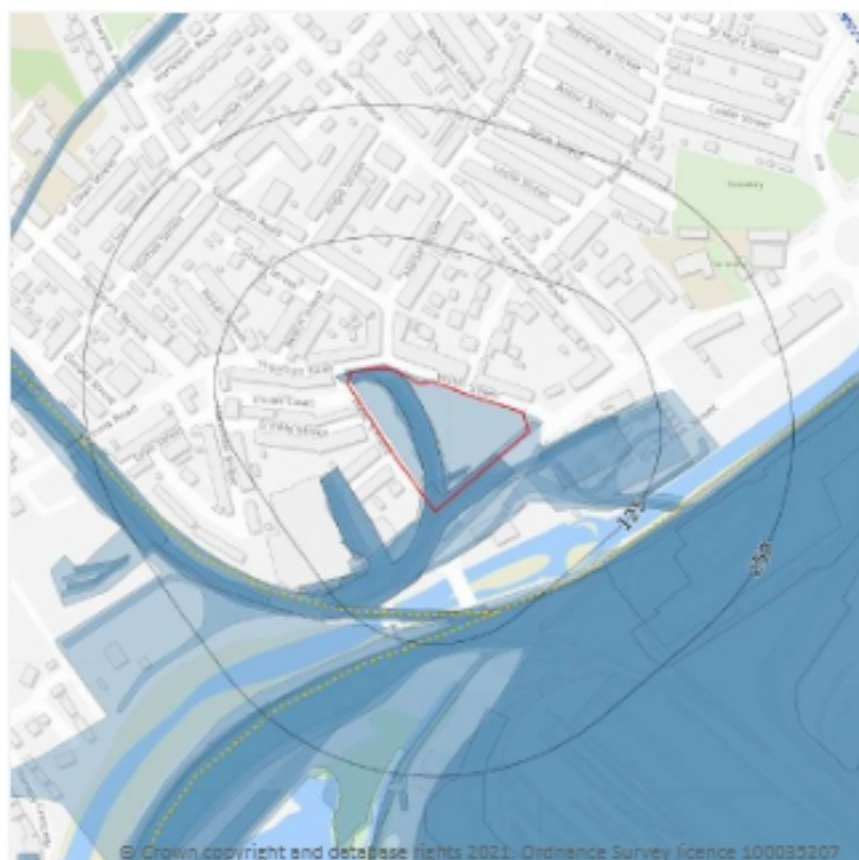
Records within 50m

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.

21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- 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

21.1 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.

21.2 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.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

57

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 139](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1951	2500
On site	Railway Sidings	1950	1250
On site	Railway Sidings	1962	1250
On site	Railway Sidings	1899	2500
On site	Railway Sidings	1917	2500
On site	Railway Sidings	1939	2500
On site	Railway Sidings	1947	10560
On site	Railway Sidings	1897	10560
On site	Railway Sidings	1914	10560
On site	Railway Sidings	1921	10560
On site	Railway Sidings	1965	10560
22m SE	Railway Sidings	1957	1250
23m SE	Railway Sidings	1951	1250
24m SE	Railway Sidings	1951	2500
30m SE	Tramway Sidings	1881	2500
96m S	Railway Sidings	1947	10560
105m S	Railway Sidings	1965	10560

Location	Land Use	Year of mapping	Mapping scale
107m S	Railway Sidings	1899	2500
121m S	Railway Sidings	1950	1250
121m S	Railway Sidings	1962	1250
121m S	Railway Sidings	1967	2500
121m S	Railway Sidings	1968	1250
125m SE	Railway Sidings	1951	2500
138m SE	Railway Sidings	1897	10560
145m SE	Disused Railway Sidings	1968	2500
145m SE	Railway Sidings	1967	1250
153m SE	Railway Sidings	1964	1250
153m SE	Railway Sidings	1951	1250
155m SE	Railway Sidings	1957	1250
167m SE	Railway Sidings	1979	10000
171m SW	Railway Sidings	1962	1250
175m SW	Railway Sidings	1950	1250
182m SE	Railway Sidings	1950	1250
182m SE	Railway Sidings	1951	2500
190m SE	Railway	1876	-
192m S	Railway Sidings	1897	10560
193m SE	Railway Sidings	1967	2500
213m SE	Railway Sidings	1957	1250
213m SE	Railway Sidings	1964	1250
213m SE	Railway Sidings	1951	1250
214m SE	Railway Sidings	1967	1250
220m SE	Railway Sidings	1968	2500
222m SW	Railway Sidings	1947	10560
226m SE	Railway Sidings	1951	1250
226m SE	Railway Sidings	1957	1250

Location	Land Use	Year of mapping	Mapping scale
226m SE	Railway Sidings	1964	1250
228m SE	Railway Sidings	1967	1250
228m SE	Railway Sidings	1964	1250
229m SE	Railway Sidings	1967	1250
232m SW	Railway Sidings	1899	2500
239m SE	Railway Sidings	1951	1250
247m S	Railway Sidings	1962	1250
248m S	Railway Sidings	1968	1250
249m S	Railway Sidings	1967	2500
250m S	Railway Sidings	1967	2500
250m W	Railway Sidings	1914	10560
250m W	Railway Sidings	1921	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 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.

21.6 Historical railways

Records within 250m

2

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

Features are displayed on the Railway infrastructure and projects map on [page 139](#)

Location	Description
97m S	Razed

Location	Description
110m SE	Dismantled

This data is sourced from OpenStreetMap.

21.7 Railways

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

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

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

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 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.

21.10 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

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APPENDIX 5 - Coal Authority Report



The Coal
Authority

CON29M

coal mining report

BURROWS YARD, WATER STREET, ABERAVON, NEATH PORT TALBOT, SA12 6LL



Known or potential coal mining risks

Future underground coal mining

Page 3



Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit
www.groundstability.com



Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Your reference: **GRD-21252**
Our reference: **51002684845001**
Date: **28 September 2021**

Client name:
James Doyle

If you require any further assistance please
contact our experts on:
0345 762 6848
groundstability@coal.gov.uk



The Law
Society

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is
on the coalfield



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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.



Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

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1 Past underground coal mining

The property is not within a surface area that could be affected by any past recorded underground coal mining.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.

www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call 01623 646 333. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary



Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

APPENDIX 6 - CIRIA Risk Assessment Methodology

Contaminated Land Risk Assessment

Contaminated Land Risk Assessment is a technique that identifies and considers the associated risk, determines whether the risks are significant and whether action needs to be taken. The four main stages of risk assessment are:

Hazard Identification ➡ Hazard Assessment ➡ Risk Estimation ➡ Risk Evaluation

CLR11 outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. The starting point of the risk assessment is to identify the context of the problem and the objectives of the process. Under CLR11, three tiers of risk assessment exist - Preliminary, Generic Quantitative and Detailed Quantitative.

Formulating and developing a conceptual model for the site is an important requirement of risk assessment, this supports the identification and assessment of pollutant linkages. Development of the conceptual model forms the main part of preliminary risk assessment, and the model is subsequently refined or revised as more information and understanding is obtained through the risk assessment process.

Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the likelihood and the consequences of an event must be taken into account when assessing risk.

The risk assessment process needs to take into account the degree of confidence required in decisions. Identification of uncertainties is an essential step in risk assessment.

The likelihood of an event is classified on a four-point system using the following terms and definitions from CIRIA C552:

- **High likelihood:** There is a pollution linkage and an event appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution;
- **Likely:** There is a pollution linkage and all the elements are present and in the right place, which means it is probable that an event will occur. Circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term;
- **Low likelihood:** There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain even over a longer period such event would take place, and is less likely in the short term;
- **Unlikely:** There is a pollution linkage but circumstances are such that it is improbable the event would occur even in the long term.

The severity is also classified using a system based on CIRIA C552. The terms and definitions are:

- **Severe:** Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. A short-term risk to a particular ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);
Examples – High concentrations of contaminant on surface of recreation area, major spillage of contaminants from site into controlled waters, explosion causing building to collapse;

- Medium:** Chronic damage to human health ('significant harm' as defined in DETR 2000). Pollution of sensitive water resources. A significant change in a particular ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);
Examples - Concentrations of contaminants exceed the generic assessment criteria, leaching of contaminants from a site to a Principal or Secondary Aquifer, death of species within a designated nature reserve;
- Mild:** Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures, services or the environment;
Examples – Pollution of non-classified groundwater or damage to buildings rendering it unsafe to occupy.
- Minor:** harm, not necessarily significant harm, which may result in financial loss or expenditure to resolve. Non-permanent health effects to human health (easily prevented by use of personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.
Examples – Presence of contaminants at such concentrations PPE is required during site work, loss of plants in landscaping scheme or discolouration of concrete.

Once the likelihood and severity have been determined, a risk category can be assigned using the table below.

		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very Low	Very low

Definitions of the risk categories obtained from the above table are as follows together with an assessment of the further work that might be required:

- Very high:** There is a high probability that severe harm could arise to a designated receptor from an identified hazard or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability. Urgent investigation and remediation are likely to be required;
- High:** Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required and remedial works may be necessary in the short term and are likely over the longer term;
- Moderate:** It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it would be more likely to be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term;
- Low:** It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild;
- Very Low:** There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe.

APPENDIX 7 - Exploratory Hole Logs

Borehole Log

Borehole No.

WS01

Sheet 1 of 1

Project Name: AFAN WAY

Project No.
GRO-21252

Co-ords: -

Hole Type
WB

Location: PORT TALBOT

Level:

Scale
1:25

Client: ALDI STORES LIMITED

Dates: 04/10/2021 -

Logged By
MB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	EB		0.20			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse.	
		0.50	EB		0.45			MADE GROUND: Black sandy angular to subangular fine to coarse gravel of mixed lithologies including brick, ceramic and concrete. Sand is fine to coarse.	
		0.80	EB		0.70			MADE GROUND: Brown silty fine to coarse sand. Contains ash.	
		1.00		N=4 (1,0/1,1,1,1)	1.00			MADE GROUND: Black gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, ash and clinker.	1
		1.10	EB					MADE GROUND: Brown clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, ash and clinker.	
		2.00		N=50 (25,0/50 for 235mm)	2.00			End of borehole at 2.00 m	2
									3
									4
									5

Remarks

1. Hand dug pit to 1.20m bgl. 2. No groundwater encountered 3. Borehole backfilled.

Borehole Log

Borehole No.

WS02

Sheet 1 of 2

Project Name: AFAN WAY

Project No.
GRO-21252

Co-ords: -

Hole Type
WB

Location: PORT TALBOT

Level:

Scale
1:25

Client: ALDI STORES LIMITED

Dates: 04/10/2021 -

Logged By
MB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	EB					MADE GROUND: Brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse. Cobbles are angular to sub angular of brick.	
		0.90	EB	N=32 (4,7/7,8,7,10)	0.80			MADE GROUND: Black sandy gravel. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of mixed lithologies including brick concrete and ceramic.	1
		1.00							
		2.00		N=2 (0,1/0,1,0,1)					2
		2.30	D		2.20			Soft to firm grey sandy CLAY.	
		2.30	EB						
		3.00		N=4 (2,1/1,1,1,1)					3
		3.60	D		3.50			Soft grey sandy CLAY.	
		3.60	EB						
		4.00		N=40 (10,10/10,10,10,10)	4.00			Dense brown fine to medium SAND and subrounded to rounded fine to coarse GRAVEL of mixed lithologies.	4
					5.00			Continued on next sheet	5

Remarks

1. Hand dug pit to 1.20m bgl 2. No groundwater encountered 3. Installation to 4.0m bgl: 1.00m plain, 3.00m slotted.

Borehole Log

Borehole No.

WS03

Sheet 1 of 1

Project Name: AFAN WAY

Project No.
GRO-21252

Co-ords: -

Hole Type
WB

Location: PORT TALBOT

Level:

Scale
1:25

Client: ALDI STORES LIMITED

Dates: 04/10/2021 -

Logged By
MB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	EB		0.20			MADE GROUND: Brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete.	
		0.60	EB		0.50			MADE GROUND: Brown sandy cobble angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse. Cobbles are angular to subangular of concrete.	
		1.00		N=2 (1,0/1,1,0,0)	1.00			MADE GROUND: Black sandy angular to subangular fine to coarse gravel of mixed lithologies including coal, ash and clinker. Sand is fine to coarse.	
		1.10	EB					Very loose black silty clayey fine to medium SAND.	1
		2.00	D		1.50			Loose black sandy angular to subangular fine to coarse GRAVEL of mixed lithologies. Sand is fine to medium.	
		2.00	EB	N=5 (1,1/2,1,1,1)					2
		2.00							
		3.00		N=8 (1,0/1,1,1,5)					3
		4.00		N=2 (1,0/0,1,0,1)	4.00			End of borehole at 4.00m	4
									5

Remarks

1. Hand dug pit to 1.20m bgl 2. No groundwater encountered 3. Installation to 2.00m bgl due to borehole collapse 1.00m plain, 1.00m slotted.

Borehole Log

Borehole No.

WS04

Sheet 1 of 1

Project Name: AFAN WAY

Project No.
GRO-21252

Co-ords: -

Hole Type
WB

Location: PORT TALBOT

Level:

Scale
1:25

Client: ALDI STORES LIMITED

Dates: 04/10/2021 -

Logged By
MB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.20			MADE GROUND: Brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete.	
		1.00 1.00	ES	N=4 (1,1/1,1,1,1)				MADE GROUND: Black sandy angular to subangular fine to coarse gravel of mixed lithologies including brick, concrete, ash and clinker. Sand is fine to coarse.	1
		1.90 2.00	ES	N=2 (1,0/0,1,0,1)	1.80			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse.	2
		2.60 2.60	D ES		2.50			Soft grey sandy CLAY.	
		3.00		N=4 (1,1/1,1,1,1)					3
		4.00		N=21 (10,5/5,6,5,5)	4.00			Recommending 1m to 4.00m bgl. End of borehole at 4.00m	4
									5

Remarks

1. Hand dug pit to 1.20m bgl 2. No groundwater encountered 3. Borehole backfilled.

Borehole Log

Borehole No.

WS05

Sheet 1 of 1

Project Name: AFAN WAY

Project No.
GRO-21252

Co-ords: -

Hole Type
WB

Location: PORT TALBOT

Level:

Scale
1:25

Client: ALDI STORES LIMITED

Dates: 04/10/2021 -

Logged By
MB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	EB	N=4 (1,3/1,1,1,1)	0.25			MADE GROUND: Brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of mixed lithologies including brick and concrete.	1	
		0.30	EB					MADE GROUND: Black sandy gravel. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of mixed lithologies including concrete, coal, ceramic and brick.		
		0.80	EB					MADE GROUND: Dark brown silty clayey sand. Sand is fine to coarse.		
		1.00						Firm grey organic CLAY. Contains plant material.		
		1.50	D	N=2 (1,0/1,0,1,0)	2.20			Soft dark grey CLAY.	2	
		1.50	EB							
		2.00	D							
		2.00								
		3.00	D	N=4 (1,1/1,1,1,1)	4.00				3	
		3.00	EB							
		3.00								
		4.00	D							
		4.00		N=20 (7,6/5,5,5,5)			End of borehole at 4.00 m		4	
									5	

Remarks

1. Hand dug pit to 1.20m bgl 2. No groundwater encountered 3. Installation to 4.0m bgl 1.00m plain, 3.00m slotted.

Borehole Log

Borehole No.

WS06

Sheet 1 of 1

Project Name: AFAN WAY

Project No.
GRO-21252

Co-ords: -

Hole Type
WB

Location: PORT TALBOT

Level:

Scale
1:25

Client: ALDI STORES LIMITED

Dates: 04/10/2021 -

Logged By
MB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20			MADE GROUND: Concrete.	
		0.30	EB		0.40			MADE GROUND: Black sandy angular to subangular fine to coarse gravel of mixed lithologies including brick, concrete, ash and clinker. Sand is fine to coarse.	
		0.50	EB		0.60			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including ash and clinker. Sand is fine to coarse.	
		0.70	EB		1.00			MADE GROUND: Black sandy angular to subangular fine to coarse gravel of mixed lithologies including coal, ash and clinker. Sand is fine to coarse.	1
		1.00		N=2 (1,1/0,1,0,1)	1.50			Soft to firm grey CLAY.	
		1.50	EB		2.00			NO RECOVERY.	2
		2.00		N=4 (1,1/1,1,1,1)	3.00			Soft to firm grey CLAY.	3
		3.00		N=4 (1,1/1,1,1,1)	3.50				
		3.50	D		4.00			Recomm. firm to stiff at 4.00m bgl.	4
		4.00		N=23 (8,7/8,5,5,5)				End of borehole at 4.00m	5

Remarks

1. Hand dug pit to 1.20m bgl 2. No groundwater encountered 3. Installation to 4.0m bgl 1.00m plain, 3.00m slotted.

Trial Pit Log

Tripit No

TP01

Sheet 1 of 1

Project Name: AFAN WAY	Project No: GRO-21252	Co-ords: - Level:	Date: 25/09/2021
Location: PORT TALBOT	Dimensions (m):		Scale: 1:25
Client: ALDI STORES LIMITED	Depth: 3.20		Logged: MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	PID=0	0.20			MADE GROUND: Dark brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including concrete and brick.	
				0.30			MADE GROUND: Concrete.	
				0.50			MADE GROUND: Tarmac.	
							MADE GROUND: Brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick, coal and concrete. Sand is fine to coarse. Cobbles are angular to subangular of mixed lithologies including concrete and brick.	
	1.00	ES	PID=0					1
	1.50	ES	PID=0					2
				2.20			Soft grey sandy CLAY. Moderate hydrocarbon odour.	
	2.50	ES	PID=35					
	3.00	ES	PID=0	3.00			Firm grey sandy CLAY.	3
				3.20			End of pit at 3.20 m	
								4
								5

Remarks: 1. No groundwater encountered 2. Pit sides stable 3. Trial pit backfilled.

Stability:



Trial Pit Log

Tripit No

TP02

Sheet 1 of 1

Project Name: AFAN WAY	Project No. GRO-21252	Co-ords: - Level:	Date 30/09/2021
Location: PORT TALBOT	Dimensions (m):		Scale 1:25
Client: ALDI STORES LIMITED	Depth 3.00		Logged MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.10			MADE GROUND: Concrete.	
				0.20			MADE GROUND: Tarmac.	
	0.30	ES	PID=0				MADE GROUND: Dark brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick, coal and concrete. Sand is fine to coarse. Cobbles are angular to subangular of brick.	
	0.60	ES	PID=0	0.50			MADE GROUND: Tarmac.	
				0.60			MADE GROUND: Brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick, coal and concrete. Sand is fine to coarse. Cobbles are angular to subangular of brick.	
	1.10	ES	PID=0	1.00			MADE GROUND: Dark brown sandy angular to subrounded fine to coarse gravel of mixed lithologies including brick and coal. Sand is medium to coarse.	1
	1.70	D		1.60			Soft grey sandy CLAY. Sand is fine to medium.	
	1.70	ES	PID=0					2
				2.80			Very soft grey silty CLAY.	
	3.00	D		3.00			End of pit at 3.00 m	3
	3.00	ES	PID=0					4
								5

Remarks: 1. No groundwater encountered 2. Pit sides stable 3. Trial pit backfilled.

Stability:



Trial Pit Log

 Trialpit No
TP03
 Sheet 1 of 1

Project Name: AFAN WAY	Project No. GRO-21252	Co-ords: - Level:	Date 30/09/2021
Location: PORT TALBOT	Dimensions (m):		Scale 1:25
Client: ALDI STORES LIMITED	Depth 3.00		Logged MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES	PID=0	0.10			MADE GROUND: Concrete	
							MADE GROUND: Dark brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse. Cobble content is high of angular to subangular cobbles of brick.	
	1.00	ES	PID=0	0.90			MADE GROUND: Black sandy angular to subangular fine to coarse gravel of mixed lithologies including ash, coal, shale and slag. Sand is fine to coarse.	1
	1.50 1.50	D ES	PID=0	1.35			Soft brown sandy CLAY. Sand is fine to medium	
	2.00 2.00	ES ES	PID=0					2
				2.80 3.00			Very soft grey gravelly silty CLAY. Gravel is rounded to well rounded medium to coarse of mixed lithologies including sandstone and mudstone. <i>End of pit at 3.00 m</i>	3
								4
								5

Remarks: 1. No groundwater encountered 2. Upper 0.5m unstable. Remainder of the pit stable to base 3. Trial pit backfilled.

Stability:



Trial Pit Log

Trialpit No

TP04

Sheet 1 of 1

Project Name:	AFAN WAY	Project No.	GRO-21252	Co-ords:	-	Date	30/09/2021
Location:	PORT TALBOT	Dimensions (m):		Depth	3.20	Scale	1:25
Client:	ALDI STORES LIMITED					Logged	MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	E8	PID=0				MADE GROUND: Dark brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse. Cobbles are angular to subangular of mixed lithologies including brick and concrete.	
				0.50			MADE GROUND: Concrete	
				0.70			MADE GROUND: Brown angular to subangular fine to coarse gravel of mixed lithologies including brick, concrete and slag.	
	0.80	E8	PID=0	1.00			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including ash, brick and concrete. Sand is fine to coarse.	1
				1.50			MADE GROUND: Light brown slightly gravelly fine to coarse sand. Gravel is angular fine of brick.	
	1.60	E8	PID=0	1.70			Firm grey sandy CLAY. Sand is fine	
	1.80	E8	PID=0					2
				2.50			Soft grey sandy CLAY. Sand is fine.	
	2.80	E8	PID=0	3.20			End of pit at 3.20 m	3
								4
								5

Remarks: 1. No groundwater encountered 2. Pit sides stable 3. Trial pit backfilled.

Stability:



Trial Pit Log

Trialpit No

TP05

Sheet 1 of 1

Project Name: AFAN WAY	Project No. GRO-21252	Co-ords: - Level:	Date 30/09/2021
Location: PORT TALBOT	Dimensions (m):		Scale 1:25
Client: ALDI STORES LIMITED	Depth 4.20		Logged MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20 0.20	E8 E8	PID=0	0.15 0.40			MADE GROUND: Weathered concrete. MADE GROUND: Brown mottled grey sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Cobbles are subangular of brick and concrete. MADE GROUND: Black ashy gravelly fine sand. Gravel is angular fine to coarse of mixed lithologies	1
	0.50 0.50	E8 E8	PID=0					
	1.50 1.50	E8 E8	PID=14	1.60			Soft grey mottled black very sandy silty CLAY. Moderate to strong hydrocarbon odour.	2
	2.00 2.00	D D						
	3.00 3.00 3.00 3.00	D D E8 E8	PID=60					3
	4.00 4.00 4.00 4.00	D D E8 E8	PID=0	3.80 4.20			Very soft grey silty CLAY.	4
							End of pit at 4.20 m	5

Remarks: 1. Groundwater encountered at base of pit. 2. Pit sides stable. 3. Trial pit backfilled.

Stability:

Trial Pit Log

Trialpit No

TP06

Sheet 1 of 1

Project Name:	AFAN WAY	Project No.	GRO-21252	Co-ords:	-	Date	30/09/2021
Location:	PORT TALBOT	Dimensions (m):		Depth	2.80	Scale	1:25
Client:	ALDI STORES LIMITED					Logged	MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	PID=0	0.25			MADE GROUND: Brown sandy gravelly topsoil. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete.	
				0.50			MADE GROUND: Grey angular to subangular fine to coarse gravel of mixed lithologies including concrete.	
							MADE GROUND: Cobbles of brick.	
	1.20	ES	PID=0	1.10			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse.	1
	1.60	ES	PID=0	1.60			MADE GROUND: Concrete.	
				1.70			MADE GROUND: Dark brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick and slag. Sand is fine to coarse.	2
	2.80	ES	PID=2	2.70			Soft to firm grey sandy CLAY. Sand is fine.	
				2.80			Water Table	3
								4
								5

Remarks: 1. Groundwater perched in Made Ground at 1.00m bgl. 2. Pit sides unstable 3. Trial pit backfilled.

Stability:

Trial Pit Log

 Trial Pit No
TP07
 Sheet 1 of 1

Project Name: AFAN WAY	Project No: GRO-21252	Co-ords: - Level:	Date 30/09/2021
Location: PORT TALBOT	Dimensions (m): Depth 2.10		Scale 1:25
Client: ALDI STORES LIMITED			Logged MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10	ES	PID=0	0.20			MADE GROUND: Dark brown gravelly fine to coarse sand. Gravel is angular to subrounded fine to coarse of mixed lithologies including concrete, brick and ceramic.
	0.25	ES	PID=0	0.25			MADE GROUND: Concrete.
							MADE GROUND: Light brown cobbly gravelly fine to coarse sand. Gravel is angular to subangular fine to medium of mixed lithologies including brick and concrete.
				0.75			MADE GROUND: Cobbles of brick.
	1.20	ES	PID=0	1.20			MADE GROUND: Mottled brown red and grey clayey medium to coarse sand.
				1.40			Firm grey sandy CLAY. Sand is fine.
	1.80	ES	PID=0				
				2.10			
							End of pit at 2.10 m

Remarks: 1. Rapid Ingress of groundwater at 1.3m 2. Pit sides stable 3. Trial pit backfilled.

Stability:

Trial Pit Log

Trialpit No

TP08

Sheet 1 of 1

Project Name:	AFAN WAY	Project No.	GRO-21252	Co-ords:	-	Date	30/09/2021
Location:	PORT TALBOT	Dimensions (m):		Level:		Scale	1:25
Client:	ALDI STORES LIMITED	Depth	3.20			Logged	MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	E8	PID=0				MADE GROUND: Brown gravelly cobbly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick and concrete. Cobbles are angular to subangular of mixed lithologies including brick and concrete.	
	1.20	E8	PID=0	1.00			MADE GROUND: Light brown sandy angular to subangular fine to coarse gravel of mixed lithologies including ash and brick. Sand is fine to coarse.	1
	1.60	E8	PID=0	1.50			MADE GROUND: Red brown clayey sand. Sand is medium to coarse. Contains ash.	2
	2.80	E8	PID=0	2.80			Grey gravelly cobbly fine to medium SAND. Gravel is subrounded to rounded coarse of mixed lithologies. Cobbles are subrounded to rounded of mixed lithologies.	3
				3.20			End of pit at 3.20 m	5

Remarks: 1. Groundwater seepage at 2.8m 2. Pit sides stable 3. Trial pit backfilled.

Stability:

Trial Pit Log

Trialpit No

TP09

Sheet 1 of 1

Project Name: AFAN WAY	Project No: GRO-21252	Co-ords: -	Date: 30/09/2021
Location: PORT TALBOT	Dimensions (m):		Scale: 1:25
Client: ALDI STORES LIMITED	Depth: 3.10		Logged: MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.10			MADE GROUND: Dark brown gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete and tarmac.	
	0.50	ES					MADE GROUND: Light brown gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, tarmac and concrete.	
				1.00			MADE GROUND: Dark brown gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including brick, concrete and tarmac.	1
	2.10	ES		2.00			Brown fine to medium SAND.	2
	2.60 2.60	D ES		2.50			Soft grey sandy CLAY. Sand is fine.	
				3.10			End of pit at 3.10 m	3
								4
								5

Remarks: 1. No groundwater encountered 2. Pit sides stable 3. Trial pit backfilled.

Stability:

Trial Pit Log

 Trialpit No
TP10
 Sheet 1 of 1

Project Name: AFAN WAY	Project No. GRO-21252	Co-ords: - Level:	Date 01/10/2021
Location: PORT TALBOT	Dimensions (m):		Scale 1:25
Client: ALDI STORES LIMITED	Depth 3.00		Logged MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					MADE GROUND: Dark brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse. Cobbles are angular of brick.	
	0.50	ES		0.40			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse.	
				0.80			MADE GROUND: Concrete.	
				0.90			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse.	1
	2.20 2.20	D ES		2.20			Soft grey sandy CLAY. Sand is fine.	2
				3.00			End of pit at 3.00 m	3
								4
								5

Remarks: 1. No groundwater encountered 2. Pit sides stable 3. Trial pit backfilled.

Stability:

Trial Pit Log

Trialpit No

TP11

Sheet 1 of 1

Project Name: AFAN WAY	Project No. GRO-21252	Co-ords: - Level:	Date 01/10/2021
Location: PORT TALBOT	Dimensions (m):		Scale 1:25
Client: ALDI STORES LIMITED	Depth 1.30		Logged MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					MADE GROUND: Dark brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse. Cobbles are angular of brick.	
	0.50	ES		0.40 0.45			MADE GROUND: Tarmac. MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick, concrete and tarmac. Sand is fine to coarse.	
				1.00			MADE GROUND: Concrete.	1
				1.30			End of pit at 1.30 m	
								2
								3
								4
								5

Remarks: 1. No groundwater encountered 2. Pit sides stable 3. Trial pit backfilled.

Stability:



Trial Pit Log

Trialpit No

TP12

Sheet 1 of 1

Project Name:	AFAN WAY	Project No.	GRO-21252	Co-ords:	-	Date	01/10/2021
Location:	PORT TALBOT	Dimensions (m):		Level:		Scale	1:25
Client:	ALDI STORES LIMITED	Depth	3.00			Logged	MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					MADE GROUND: Dark brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick, ceramic and concrete. Sand is fine to coarse. Cobble content is high and are angular of brick.	
	0.70	ES		0.60			MADE GROUND: Brown slightly gravelly clayey medium to coarse sand. Gravel is angular fine of ash and brick.	1
	2.10	D		2.00			Brown clayey cobbly SAND. Sand is fine to medium. Cobbles are rounded of mixed lithologies including sandstone.	2
	2.10	ES		2.30			Soft grey CLAY.	
	2.40	D						
	2.40	ES		3.00			End of pit at 3.00 m	3
								4
								5

Remarks: 1. Groundwater seepage at 2.4m 2. Pit sides stable 3. Trial pit backfilled.

Stability:

Trial Pit Log

 Trialpit No
TP13

Sheet 1 of 1

Project Name: AFAN WAY	Project No: GRO-21252	Co-ords: - Level:	Date 01/10/2021
Location: PORT TALBOT	Dimensions (m):	Depth 3.00	Scale 1:25
Client: ALDI STORES LIMITED			Logged MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					MADE GROUND: Dark brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick, ceramic and concrete. Sand is fine to coarse. Cobbles are angular of brick.	
	0.70	ES		0.65			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick. Sand is fine to coarse.	1
	1.20	ES		1.10			MADE GROUND: Black sandy angular to subangular fine to coarse gravel of mixed lithologies including glass, ash and clinker. Sand is fine to coarse.	
	1.90	ES		1.80			Firm brown CLAY.	2
	2.60 2.60	D ES		2.50			Light brown clayey SAND. Sand is fine to medium.	
	3.00 3.00	D ES		2.90 3.00			Soft grey CLAY. End of pit at 3.00 m	3
								4
								5

Remarks: 1. No groundwater encountered 2. Pit sides stable 3. Trial pit backfilled.

Stability:



Trial Pit Log

Tripit No

TP14

Sheet 1 of 1

Project Name: AFAN WAY	Project No: GRO-21252	Co-ords: - Level:	Date: 01/10/2021
Location: PORT TALBOT	Dimensions (m):		Scale: 1:25
Client: ALDI STORES LIMITED	Depth: 3.00		Logged: MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					MADE GROUND: Dark brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick, ceramic and concrete. Sand is fine to coarse. Cobbles content is high and are angular of brick.	
				0.50				
				0.60			MADE GROUND: Concrete and brick.	
							MADE GROUND: Dark brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick ceramic and concrete. Sand is fine to coarse. Cobbles are angular of brick.	
	1.10	D		1.00			Firm grey sandy CLAY. Sand is fine. Contains plant material.	1
	1.10	ES						
								2
				2.60			Soft grey sandy CLAY. Sand is fine. Contains plant material.	
				3.00			End of pit at 3.00 m	3
								4
								5

Remarks: 1. No groundwater encountered 2. Pit sides stable 3. Trial pit backfilled.

Stability:

Trial Pit Log

Tripit No

TP15

Sheet 1 of 1

Project Name: AFAN WAY	Project No: GRO-21252	Co-ords: - Level:	Date 01/10/2021
Location: PORT TALBOT	Dimensions (m):		Scale 1:25
Client: ALDI STORES LIMITED	Depth 2.90		Logged MB

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					MADE GROUND: Dark brown sandy cobbly angular to subangular fine to coarse gravel of mixed lithologies including brick and ceramic. Sand is fine to coarse. Cobbles are angular of brick.	
	0.60	ES		0.50			MADE GROUND: Grey clayey sand. Sand is fine to coarse of mixed lithologies including brick, ash and clinker.	
	1.00	ES		0.90			MADE GROUND: Black slightly gravelly fine to coarse sand. Gravel is angular of mixed lithologies including ash, brick and coal.	1
	2.30	ES		2.20			Black clayey SAND. Sand is fine to medium.	2
	2.80 2.80	D ES		2.70 2.90			Soft black sandy CLAY. Sand is fine.	
							End of pit at 2.90 m	3
								4
								5

Remarks: 1. No groundwater encountered 2. Pit sides stable 3. Trial pit backfilled.

Stability:

Borehole Log

Borehole No.

CP01

Sheet 1 of 1

Project Name: AFAN WAY

Project No.
GRO-21252

Co-ords: -

Hole Type
CP

Location: PORT TALBOT

Level:

Scale
1:50

Client: ALDI STORES LIMITED

Dates: 29/10/2021 -

Logged By
MB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50	EB	PID=0	2.80			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse.	1
		1.00	EB	PID=0					
		1.20		50 (25,20/50 for 20mm)					
		1.25 - 1.65	D						
		2.00	EB	50 (5,10/50 for 85mm)	2.80			Soft very low strength grey silty CLAY.	2
		2.00		PID=0					
		2.00 - 2.45	D						
		2.90	D						
		3.00	EB	PID=0	5.30			Dense brown slightly cobbly sandy subrounded fine to coarse GRAVEL of mixed lithologies.	3
		3.00 - 3.45	U						
		3.50	D						
		4.00		N=10 (1,1/2,2,3,3)					
		4.00 - 4.45	D						
		5.00		50 (25,40/50 for 10mm)	6.00			End of borehole at 6.00m	4
		5.00 - 5.45	U						
		5.50	D						
		5.50	D						
		6.00	D	50 (25,20/50 for 25mm)					
		6.00							

Remarks

1. Hand dug pit to 1.20m bgl 2. Groundwater encountered at 3.0m bgl 3. Installation to 6.00m bgl 5.00m plain 1.00m slotted. 4. 2.50 hours chiselling undertaken between 1.20m and 2.8m bgl, 2 hours chiselling between 5.50m and 6.00m bgl.

Borehole Log

Borehole No.

CP02

Sheet 1 of 1

Project Name: AFAN WAY

Project No.
GRO-21252

Co-ords: -

Hole Type
CP

Location: PORT TALBOT

Level:

Scale
1:50

Client: ALDI STORES LIMITED

Dates: 01/10/2021 -

Logged By
MB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50	ES	PID=0	2.80			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse.	1
		1.00	ES	PID=0					
		1.20		N=50 (4,5/50 for 255mm)					
		1.20 - 1.65	D						
		2.00	ES	50 (25,20/50 for 20mm)					
		2.00		PID=0					
		2.00 - 2.45	D						
		3.00	ES	N=6 (1,1/1,1,1,3)					
		3.00		PID=0					
		3.00 - 3.45	D						
		4.00 - 4.45	U		5.00			Soft to firm low strength firm grey silty CLAY.	3
		4.50	D						
		5.00		50 (10,15/50 for 85mm)					
		5.00 - 5.45	D						
		6.00		50 (10,14/50 for 220mm)					
		6.00 - 6.45	D						
		7.00		100 (25,25/100 for 40mm)					
		7.00 - 7.45	D						
End of Borehole at 7.50 m									8
									9
									10

Remarks

1. Hand dug pit to 1.20m bgl 2. Groundwater encountered at 3.00m bgl 3. Installation to 7.0m bgl: 5.00m plain, 2.00m slotted. 4. 2.00 hours chiselling undertaken between 1.20m and 2.2m bgl, 3 hours chiselling between 5.00m and 7.00m bgl.

Borehole Log

Borehole No.

CP03

Sheet 1 of 1

Project Name: AFAN WAY

Project No.
GRO-21252

Co-ords: -

Hole Type
CP

Location: PORT TALBOT

Level:

Scale
1:50

Client: ALDI STORES LIMITED

Dates: 04/10/2021 -

Logged By
MB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50	ES	PID=0				MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse.	
		1.00	ES	PID=0					1
		1.20		N=20 (2,2/4,5,4,7)					
		2.00	ES	N=12 (1,1/2,5,3,2)				Firm medium strength soft brown silty CLAY.	2
		2.00		PID=0					
		3.00	D	N=8 (1,1/1,2,2,3)	2.90				3
		3.00	ES	PID=0				Dense brown slightly cobbly sandy subrounded fine to coarse GRAVEL of mixed lithologies.	4
		3.00							
		4.00	D		4.70				5
		4.00 - 4.45	U					End of borehole at 6.45m	6
		5.00	D	N=50 (3,4/7,3,20,20)					7
		5.00							8
		6.00	D	50 (25,7/50 for 20mm)	6.45				9
		6.00							10
		6.00							

Remarks

1. Hand dug pit to 1.20m bgl 2. Groundwater encountered at 3.5m bgl 3. Installation to 6.00m: 5.00m plain 1.00m slotted.
4. 2.50 hours chiselling undertaken between 5.30m and 6.00m bgl.

Borehole Log

Borehole No.

CP04

Sheet 1 of 1

Project Name: AFAN WAY

Project No.
GRO-21252

Co-ords: -

Hole Type
CP

Location: PORT TALBOT

Level:

Scale
1:50

Client: ALDI STORES LIMITED

Dates: 05/10/2021 -

Logged By
MB

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50	ES	PID=0	2.40			MADE GROUND: Brown sandy angular to subangular fine to coarse gravel of mixed lithologies including brick and concrete. Sand is fine to coarse.	1
		1.00	ES	PID=0					
		1.20	D	N=15 (1,3/5,2,3,5)					
		1.20							
		2.00	D		3.90			Firm low strength firm brown silty CLAY.	2
		2.00	ES	N=8 (1,2/2,2,2,2) PID=0					
		2.00							
		3.00	D						
		3.00		N=10 (1,2/3,2,2,3)					
		3.00 - 3.45	U						
		4.00	D		5.50			Dense brown slightly cobbly sandy subrounded fine to coarse GRAVEL of mixed lithologies.	3
		4.00		N=30 (3,6/6,7,7,10)					
		5.00	D						
		5.00		50 (25,25/50 for 20mm)					
		5.50		50 (10,10/50 for 10mm)					
		End of borehole at 5.50 m							
								4	
								5	
								6	
								7	
								8	
								9	
								10	

Remarks

1. Hand dug pit to 1.20m bgl 2. Groundwater encountered at 3.50m bgl 3. Installation to 6.00m bgl; 4.00m plain, 2.00m slotted.

APPENDIX 8 - Geo-Environmental Testing (Soils)

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Analytical Report Number : 21-17040

Project / Site name:	Afen Way, Port Talbot	Samples received on:	14/10/2021
Your job number:	GRO-21252	Samples instructed on/ Analysis started on:	14/10/2021
Your order number:		Analysis completed by:	26/10/2021
Report Issue Number:	1	Report issued on:	26/10/2021
Samples Analysed:	15 soil samples		


Signed:

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

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

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

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

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

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

Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number	2050664	2050665	2050666	2050667	2050668
Sample Reference	TP01	TP02	TP03	TP05	TP05
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	2.50	0.30	1.00	0.50	2.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection	As received basis		
Stone Content	%	0.1	NDIR	< 0.1	< 0.1
Moisture Content	%	0.01	NDIR	19	19
Total mass of sample received	kg	0.001	NDIR	0.50	0.50

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17028	-	Chrysotile & Amosite & Crocidolite	-	-	-
Asbestos in Soil	Type	N/A	ISO 17028	-	Detected	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17028	-	0.003	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17028	-	0.003	-	-	-

General Inorganics

pH - Automated	pH units	N/A	HCNATE	-	9.0	9.0	9.3	8.4
Total Cyanide	mg/kg	1	HCNATE	-	56	2.5	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 15hr extraction (2-1)	mg/kg	2.8	HCNATE	-	560	110	150	1100
Water Soluble SO ₄ 15hr extraction (and leachate equivalent)	g/l	0.00118	HCNATE	-	0.29	0.053	0.075	0.56
Water Soluble SO ₄ 15hr extraction (and leachate equivalent)	mg/l	1.18	HCNATE	-	292	53.2	75.0	556
Organic Matter	%	0.1	HCNATE	-	-	-	-	-
Organic Matter (automated)	%	0.1	HCNATE	-	6.1	9.6	7.2	2.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	HCNATE	-	< 1.0	< 1.0	< 1.0	< 1.0
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Specified PAHs

Naphthalene	mg/kg	0.05	HCNATE	-	< 0.05	0.61	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	HCNATE	-	1.3	0.45	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	HCNATE	-	2.3	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	HCNATE	-	2.9	0.57	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	HCNATE	-	19	4.7	1.5	< 0.05
Anthracene	mg/kg	0.05	HCNATE	-	6.1	0.97	0.37	< 0.05
Fluoranthene	mg/kg	0.05	HCNATE	-	46	4.4	2.0	< 0.05
Pyrene	mg/kg	0.05	HCNATE	-	26	2.6	2.7	< 0.05
Benzo(a)anthracene	mg/kg	0.05	HCNATE	-	25	2.1	2.1	< 0.05
Chrysene	mg/kg	0.05	HCNATE	-	29	2.5	1.6	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	HCNATE	-	21	2.2	1.9	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	HCNATE	-	16	1.1	1.3	< 0.05
Benzo(x)pyrene	mg/kg	0.05	HCNATE	-	16	2.6	1.5	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	HCNATE	-	9.5	2.5	1.3	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	HCNATE	-	2.9	0.60	0.40	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	HCNATE	-	9.6	2.7	1.3	< 0.05

Total PAH

Specified Total EPA-US PAHs	mg/kg	0.8	HCNATE	-	254	22.5	19.0	< 0.60
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Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number	2050664	2050665	2050666	2050667	2050668
Sample Reference	TP01	TP02	TP03	TP05	TP05
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	2.50	0.30	1.00	0.50	2.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Lab	Batch / Reference	Accreditation		

Heavy Metals / Metalloids

Arsenic (aqueous extractable)	mg/kg	1	HCBAE	-	47	29	45	9.9
Boron (water soluble)	mg/kg	0.2	HCBAE	-	2.6	0.6	1.3	1.7
Cadmium (aqueous extractable)	mg/kg	0.2	HCBAE	-	< 0.2	0.0	2.1	< 0.2
Chromium (hexavalent)	mg/kg	4	HCBAE	-	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqueous extractable)	mg/kg	1	HCBAE	-	46	15	30	19
Copper (aqueous extractable)	mg/kg	1	HCBAE	-	910	260	160	16
Lead (aqueous extractable)	mg/kg	1	HCBAE	-	720	1400	300	15
Mercury (aqueous extractable)	mg/kg	0.2	HCBAE	-	< 0.2	< 0.2	< 0.2	< 0.2
Nickel (aqueous extractable)	mg/kg	1	HCBAE	-	57	41	26	20
Selenium (aqueous extractable)	mg/kg	1	HCBAE	-	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqueous extractable)	mg/kg	1	HCBAE	-	590	2200	1600	69

Monoaromatics & Oxygenates

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

Petroleum Hydrocarbons

TPH C10 - C40	mg/kg	10	HCBAE	-	220	44	25	910
TPH-C10 - Aliphatic >C9 - C25	mg/kg	0.001	HCBAE	< 0.001	-	-	-	< 0.001
TPH-C10 - Aliphatic >C9 - C25	mg/kg	0.001	HCBAE	< 0.001	-	-	-	< 0.001
TPH-C10 - Aliphatic >C9 - C25	mg/kg	0.001	HCBAE	< 0.001	-	-	-	< 0.001
TPH-C10 - Aliphatic >C10 - C12	mg/kg	1	HCBAE	< 1.0	-	-	-	25
TPH-C10 - Aliphatic >C12 - C16	mg/kg	3	HCBAE	< 3.0	-	-	-	220
TPH-C10 - Aliphatic >C16 - C21	mg/kg	8	HCBAE	< 8.0	-	-	-	220
TPH-C10 - Aliphatic >C21 - C25	mg/kg	8	HCBAE	< 8.0	-	-	-	42
TPH-C10 - Aliphatic (C9 - C25)	mg/kg	10	HCBAE	< 10	-	-	-	910

TPH-C10 - Aromatic >C9 - C27	mg/kg	0.001	HCBAE	< 0.001	-	-	-	< 0.001
TPH-C10 - Aromatic >C9 - C27	mg/kg	0.001	HCBAE	< 0.001	-	-	-	< 0.001
TPH-C10 - Aromatic >C9 - C27	mg/kg	0.001	HCBAE	< 0.001	-	-	-	< 0.001
TPH-C10 - Aromatic >C10 - C12	mg/kg	1	HCBAE	< 1.0	-	-	-	5.0
TPH-C10 - Aromatic >C12 - C16	mg/kg	3	HCBAE	< 3.0	-	-	-	160
TPH-C10 - Aromatic >C16 - C21	mg/kg	10	HCBAE	< 10	-	-	-	160
TPH-C10 - Aromatic >C21 - C25	mg/kg	10	HCBAE	< 10	-	-	-	42
TPH-C10 - Aromatic (C9 - C25)	mg/kg	10	HCBAE	< 10	-	-	-	290

VOCs

Chloromethane	µg/kg	1	ISO 17028	< 1.0	-	-	-	< 1.0
Chloromethane	µg/kg	1	ISO 17028	< 1.0	-	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17028	< 1.0	-	-	-	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17028	< 1.0	-	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17028	< 1.0	-	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	ISO 17028	< 1.0	-	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17028	< 1.0	-	-	-	< 1.0
1,1,2,2-tetrachloroethane	µg/kg	1	HCBAE	< 1.0	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	HCBAE	< 1.0	-	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	HCBAE	< 1.0	-	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	HCBAE	< 1.0	-	-	-	< 1.0
Trichloromethane	µg/kg	1	HCBAE	< 1.0	-	-	-	< 1.0

Analytical Report Number: 21-17040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number	2050664	2050665	2050666	2050667	2050668
Sample Reference	TP01	TP02	TP03	TP05	TP05
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	2.50	0.30	1.00	0.50	2.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection (mg/kg)	Assessment Status		
1,1,1-Trichloroethane	mg/kg	1	HCBATE	< 1.0	-
1,2-Dichloroethane	mg/kg	1	HCBATE	< 1.0	-
1,1-Dichloropropene	mg/kg	1	HCBATE	< 1.0	-
Trans-1,2-dichloroethane	mg/kg	1	NDIR	< 1.0	-
Benzene	mg/kg	1	HCBATE	< 1.0	-
Tetrachloromethane	mg/kg	1	HCBATE	< 1.0	-
1,2-Dichloropropane	mg/kg	1	HCBATE	< 1.0	-
Trichloroethane	mg/kg	1	HCBATE	< 1.0	-
Dibromomethane	mg/kg	1	HCBATE	< 1.0	-
Bromodichloromethane	mg/kg	1	HCBATE	< 1.0	-
Cis-1,2-dichloropropene	mg/kg	1	SED 17038	< 1.0	-
Trans-1,2-dichloropropene	mg/kg	1	SED 17038	< 1.0	-
Toluene	mg/kg	1	HCBATE	< 1.0	-
1,1,2-Trichloroethane	mg/kg	1	HCBATE	< 1.0	-
1,2-Dichloropropane	mg/kg	1	SED 17038	< 1.0	-
Dibromochloromethane	mg/kg	1	SED 17038	< 1.0	-
Tetrachloroethane	mg/kg	1	NDIR	< 1.0	-
1,2-Dibromomethane	mg/kg	1	SED 17038	< 1.0	-
Chlorobenzene	mg/kg	1	HCBATE	< 1.0	-
1,1,1,2-Tetrachloroethane	mg/kg	1	HCBATE	< 1.0	-
Ethylbenzene	mg/kg	1	HCBATE	< 1.0	-
p & m-Xylene	mg/kg	1	HCBATE	< 1.0	-
Styrene	mg/kg	1	HCBATE	< 1.0	-
Trichloromethane	mg/kg	1	NDIR	< 1.0	-
o-Xylene	mg/kg	1	HCBATE	< 1.0	-
1,1,2,2-Tetrachloroethane	mg/kg	1	HCBATE	< 1.0	-
Isopropylbenzene	mg/kg	1	HCBATE	< 1.0	-
Bromobenzene	mg/kg	1	HCBATE	< 1.0	-
n-Propylbenzene	mg/kg	1	SED 17038	< 1.0	-
o-Chlorotoluene	mg/kg	1	HCBATE	< 1.0	-
4-Chlorotoluene	mg/kg	1	HCBATE	< 1.0	-
1,2,5-Trimethylbenzene	mg/kg	1	SED 17038	< 1.0	-
tert-Butylbenzene	mg/kg	1	HCBATE	< 1.0	-
1,2,4-Trimethylbenzene	mg/kg	1	SED 17038	< 1.0	-
sec-Butylbenzene	mg/kg	1	HCBATE	< 1.0	-
1,3-Dichlorobenzene	mg/kg	1	SED 17038	< 1.0	-
p-Isopropyltoluene	mg/kg	1	SED 17038	< 1.0	-
1,3-Dichlorobenzene	mg/kg	1	HCBATE	< 1.0	-
1,4-Dichlorobenzene	mg/kg	1	HCBATE	< 1.0	-
Butylbenzene	mg/kg	1	HCBATE	< 1.0	-
1,3-Dibromo-2-chloropropene	mg/kg	1	SED 17038	< 1.0	-
1,2,4-Trichlorobenzene	mg/kg	1	HCBATE	< 1.0	-
Hexachlorobutadiene	mg/kg	1	HCBATE	< 1.0	-
1,2,3-Trichlorobenzene	mg/kg	1	SED 17038	< 1.0	-

SVOCs

Aniline	mg/kg	0.1	NDIR	< 0.1	-
Phenol	mg/kg	0.2	SED 17038	< 0.2	-
2-Chlorophenol	mg/kg	0.1	HCBATE	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	HCBATE	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.2	HCBATE	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.1	HCBATE	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	HCBATE	< 0.2	-
Bis(2-chloropropyl)ether	mg/kg	0.1	HCBATE	< 0.1	-
2-Naphthylphenol	mg/kg	0.2	HCBATE	< 0.2	-
Hexachloroethane	mg/kg	0.05	HCBATE	< 0.05	-

Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number	2050664	2050665	2050666	2050667	2050668
Sample Reference	TP01	TP02	TP03	TP05	TP05
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	2.50	0.30	1.00	0.50	2.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection (mg/kg)	Acceptable Value (mg/kg)		
Nitrobenzene	mg/kg	0.2	HCBATE	< 0.2	-
4-Methylphenol	mg/kg	0.2	NDIR	< 0.2	-
Isophorone	mg/kg	0.2	HCBATE	< 0.2	-
2-Nitrophenol	mg/kg	0.2	HCBATE	< 0.2	-
2,4-Dimethylphenol	mg/kg	0.2	HCBATE	< 0.2	-
Bis(2-chloroethoxy)methane	mg/kg	0.2	HCBATE	< 0.2	-
1,1,4-Trichlorobenzene	mg/kg	0.2	HCBATE	< 0.2	-
Naphthalene	mg/kg	0.05	HCBATE	< 0.05	-
2,4-Dichlorophenol	mg/kg	0.2	HCBATE	< 0.2	-
4-Chloroaniline	mg/kg	0.1	NDIR	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	HCBATE	< 0.1	-
4-Chloro-2-methylphenol	mg/kg	0.1	NDIR	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	HCBATE	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	HCBATE	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NDIR	< 0.1	-
2-Chloronaphthalene	mg/kg	0.1	HCBATE	< 0.1	-
Dimethylphthalate	mg/kg	0.1	HCBATE	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	HCBATE	< 0.1	-
Acenaphthylene	mg/kg	0.05	HCBATE	< 0.05	-
Acenaphthene	mg/kg	0.05	HCBATE	< 0.05	-
2,4-Dinitrotoluene	mg/kg	0.2	HCBATE	< 0.2	-
Dibenzofuran	mg/kg	0.2	HCBATE	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.2	ISO 17038	< 0.2	-
Dialkyl phthalate	mg/kg	0.2	HCBATE	< 0.2	-
4-Nitroaniline	mg/kg	0.2	HCBATE	< 0.2	-
Fluorene	mg/kg	0.05	HCBATE	< 0.05	-
Acenaphthene	mg/kg	0.2	HCBATE	< 0.2	-
Bromophenyl phenyl ether	mg/kg	0.2	HCBATE	< 0.2	-
Hexachlorobenzene	mg/kg	0.2	HCBATE	< 0.2	-
Phenanthrene	mg/kg	0.05	HCBATE	< 0.05	-
Anthracene	mg/kg	0.05	HCBATE	< 0.05	-
Carbazole	mg/kg	0.2	HCBATE	< 0.2	-
Dibutyl phthalate	mg/kg	0.2	HCBATE	< 0.2	-
Anthraquinone	mg/kg	0.2	HCBATE	< 0.2	-
Fluoranthene	mg/kg	0.05	HCBATE	< 0.05	-
Pyrene	mg/kg	0.05	HCBATE	< 0.05	-
Butyl benzyl phthalate	mg/kg	0.2	ISO 17038	< 0.2	-
Benzo(a)anthracene	mg/kg	0.05	HCBATE	< 0.05	-
Chrysene	mg/kg	0.05	HCBATE	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	HCBATE	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	HCBATE	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	HCBATE	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	HCBATE	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	HCBATE	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	HCBATE	< 0.05	-

Analytical Report Number: 21-67040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number				2050664	2050665	2050666	2050667	2050668
Sample Reference				TP01	TP02	TP03	TP05	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.50	0.30	1.00	0.50	2.00
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection	Analytical Status					
PCBs by GC-MS								
PCB Congener 28	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	HCBAE	-	-	-	-	-
Total PCBs by GC-MS								
Total PCBs	mg/kg	0.001	HCBAE	-	-	-	-	-

U/S - Unsuitable Sample I/S - Insufficient Sample

Analytical Report Number: 21-67040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number	2050689	2050690	2050691	2050692	2050693
Sample Reference	TP06	TP07	TP07	TP08	TP08
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	1.60	1.20	0.25	1.20	1.60
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection	As per the Method	As per the Method	As per the Method
Stone Content	%	0.1	NDIR	< 0.1	< 0.1
Moisture Content	%	0.01	NDIR	22	16
Total mass of sample received	kg	0.001	NDIR	0.50	0.50

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17028	Chrysotile	-	Chrysotile & Amosite	-	-
Asbestos in Soil	Type	N/A	ISO 17028	Detected	Not-detected	Detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17028	< 0.001	-	0.040	-	-
Asbestos Quantification Total	%	0.001	ISO 17028	< 0.001	-	0.040	-	-

General Inorganics

pH - Automated	pH units	N/A	HCNATE	7.9	6.0	10.0	6.0	7.2
Total Cyanide	mg/kg	1	HCNATE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 15hr extraction (2-1)	mg/kg	2.8	HCNATE	4000	61	540	3600	4000
Water Soluble SO ₄ 15hr extraction (and carbonate equivalent)	g/l	0.00128	HCNATE	2.0	0.020	0.27	1.9	2.0
Water Soluble SO ₄ 15hr extraction (and carbonate equivalent)	mg/l	1.28	HCNATE	2020	20.2	270	1900	2010
Organic Matter	%	0.1	HCNATE	-	-	-	-	-
Organic Matter (automated)	%	0.1	HCNATE	6.1	1.1	2.2	2.6	1.6

Total Phenols

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

Naphthalene	mg/kg	0.05	HCNATE	< 0.05	< 0.05	< 0.05	0.37	< 0.05
Acenaphthylene	mg/kg	0.05	HCNATE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	HCNATE	< 0.05	< 0.05	< 0.05	4.1	< 0.05
Fluorene	mg/kg	0.05	HCNATE	< 0.05	< 0.05	< 0.05	2.6	< 0.05
Phenanthrene	mg/kg	0.05	HCNATE	0.57	< 0.05	2.1	15	< 0.05
Anthracene	mg/kg	0.05	HCNATE	< 0.05	< 0.05	0.60	2.2	< 0.05
Fluoranthene	mg/kg	0.05	HCNATE	0.65	< 0.05	4.6	14	< 0.05
Pyrene	mg/kg	0.05	HCNATE	0.76	< 0.05	4.0	10	< 0.05
Benzo(a)anthracene	mg/kg	0.05	HCNATE	0.66	< 0.05	2.2	10	< 0.05
Chrysene	mg/kg	0.05	HCNATE	0.77	< 0.05	2.4	7.4	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	HCNATE	0.67	< 0.05	2.0	6.9	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	HCNATE	0.26	< 0.05	1.0	2.3	< 0.05
Benzo(a)pyrene	mg/kg	0.05	HCNATE	0.59	< 0.05	1.2	4.4	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	HCNATE	0.60	< 0.05	0.94	2.2	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	HCNATE	0.19	< 0.05	0.26	1.3	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	HCNATE	0.69	< 0.05	0.66	2.2	< 0.05

Total PAH

Speciated Total EPA-US PAHs	mg/kg	0.8	HCNATE	6.95	< 0.60	24.2	69.4	< 0.60
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Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number	2050689	2050690	2050691	2050692	2050693
Sample Reference	TP06	TP07	TP07	TP08	TP08
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	1.60	1.20	0.25	1.20	1.60
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	LAB	Soil Analysis	Soil Analysis	Soil Analysis	Soil Analysis

Heavy Metals / Metalloids

Arsenic (aqueous extractable)	mg/kg	1	HCBAE	71	22	21	120	26
Boron (water soluble)	mg/kg	0.2	HCBAE	0.5	0.2	0.5	1.3	0.7
Cadmium (aqueous extractable)	mg/kg	0.2	HCBAE	4.9	< 0.2	1.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	HCBAE	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqueous extractable)	mg/kg	1	HCBAE	27	11	22	26	16
Copper (aqueous extractable)	mg/kg	1	HCBAE	190	16	62	420	56
Lead (aqueous extractable)	mg/kg	1	HCBAE	260	190	140	170	47
Mercury (aqueous extractable)	mg/kg	0.2	HCBAE	< 0.2	0.4	< 0.2	< 0.2	< 0.2
Nickel (aqueous extractable)	mg/kg	1	HCBAE	25	10	22	40	21
Selenium (aqueous extractable)	mg/kg	1	HCBAE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqueous extractable)	mg/kg	1	HCBAE	16000	250	720	290	66

Monoaromatics & Oxygenates

Benzene	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
Toluene	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
Bz/benzene	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
p & m-xylene	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
o-xylene	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
MTBG (Methyl Tertiary Butyl Ether)	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-

Petroleum Hydrocarbons

TPH C10 - C40	mg/kg	16	HCBAE	94	< 10	42	140	< 10
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TPH-C10G - Aliphatic >C10 - C25	mg/kg	0.001	HCBAE	-	< 0.001	-	< 0.001	-
TPH-C10G - Aliphatic >C25 - C35	mg/kg	0.001	HCBAE	-	< 0.001	-	< 0.001	-
TPH-C10G - Aliphatic >C35 - C50	mg/kg	0.001	HCBAE	-	< 0.001	-	< 0.001	-
TPH-C10G - Aliphatic >C50 - C65	mg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
TPH-C10G - Aliphatic >C65 - C80	mg/kg	2	HCBAE	-	< 2.0	-	< 2.0	-
TPH-C10G - Aliphatic >C80 - C100	mg/kg	8	HCBAE	-	< 8.0	-	< 8.0	-
TPH-C10G - Aliphatic >C100 - C125	mg/kg	8	HCBAE	-	< 8.0	-	< 8.0	-
TPH-C10G - Aliphatic (C10 - C125)	mg/kg	10	HCBAE	-	< 10	-	< 10	-

TPH-C10G - Aromatic >C10 - C25	mg/kg	0.001	HCBAE	-	< 0.001	-	< 0.001	-
TPH-C10G - Aromatic >C25 - C35	mg/kg	0.001	HCBAE	-	< 0.001	-	< 0.001	-
TPH-C10G - Aromatic >C35 - C50	mg/kg	0.001	HCBAE	-	< 0.001	-	< 0.001	-
TPH-C10G - Aromatic >C50 - C65	mg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
TPH-C10G - Aromatic >C65 - C80	mg/kg	2	HCBAE	-	< 2.0	-	< 2.0	-
TPH-C10G - Aromatic >C80 - C100	mg/kg	10	HCBAE	-	< 10	-	< 10	-
TPH-C10G - Aromatic >C100 - C125	mg/kg	10	HCBAE	-	< 10	-	< 10	-
TPH-C10G - Aromatic (C10 - C125)	mg/kg	10	HCBAE	-	< 10	-	< 10	-

VOCs

Chloromethane	µg/kg	1	ISO 17028	-	< 1.0	-	< 1.0	-
Chloroethane	µg/kg	1	ISO 17028	-	< 1.0	-	< 1.0	-
Bromomethane	µg/kg	1	ISO 17028	-	< 1.0	-	< 1.0	-
Vinyl Chloride	µg/kg	1	ISO 17028	-	< 1.0	-	< 1.0	-
Trichlorofluoromethane	µg/kg	1	ISO 17028	-	< 1.0	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	ISO 17028	-	< 1.0	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17028	-	< 1.0	-	< 1.0	-
1,1,2,2-tetrachloroethane	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
MTBG (Methyl Tertiary Butyl Ether)	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
2,2-Dichloropropane	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-
Trichloromethane	µg/kg	1	HCBAE	-	< 1.0	-	< 1.0	-

Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number				2050689	2050690	2050691	2050692	2050693
Sample Reference				TP06	TP07	TP07	TP08	TP08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.60	1.20	0.25	1.20	1.60
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection (mg/kg)	Assessment Status					
1,1,1-Trichloroethane	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,2-Dichloroethane	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,1-Dichloropropene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Trans-1,2-dichloroethane	mg/kg	1	NDIR	-	< 1.0	-	< 1.0	-
Benzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Tetrachloromethane	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,3-Dichloropropene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Trichloroethane	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Dibromomethane	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Bromodichloromethane	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Cis-1,3-dichloropropene	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
Trans-1,3-dichloropropene	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
Toluene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,1,2-Trichloroethane	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,3-Dichloropropene	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
Dibromochloromethane	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
Tetrachloroethane	mg/kg	1	NDIR	-	< 1.0	-	< 1.0	-
1,3-Dibromomethane	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
Chlorobenzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,1,1,3-Tetrachloroethane	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Ethylbenzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
p & m-Xylene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Styrene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Trichloromethane	mg/kg	1	NDIR	-	< 1.0	-	< 1.0	-
o-Xylene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,1,2,3-Tetrachloroethane	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Isopropylbenzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Bromobenzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
n-Propylbenzene	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
o-Chlorotoluene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
4-Chlorotoluene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,2,5-Trimethylbenzene	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
tert-Butylbenzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,2,4-Trimethylbenzene	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
sec-Butylbenzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,3-Dichlorobenzene	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
p-Isopropyltoluene	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
1,3-Dichlorobenzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,4-Dichlorobenzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Butylbenzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,3-Dibromo-2-chloropropene	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
1,2,4-Trichlorobenzene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
Hexachlorobutadiene	mg/kg	1	HCBATE	-	< 1.0	-	< 1.0	-
1,2,3-Trichlorobenzene	mg/kg	1	SED 17038	-	< 1.0	-	< 1.0	-
SVOCs								
Aniline	mg/kg	0.1	NDIR	-	< 0.1	-	< 0.1	-
Phenol	mg/kg	0.2	SED 17038	-	< 0.2	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	HCBATE	-	< 0.1	-	< 0.1	-
Bis(2-chlorophenyl)ether	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.1	HCBATE	-	< 0.1	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Bis(2-chloropropyl)ether	mg/kg	0.1	HCBATE	-	< 0.1	-	< 0.1	-
2-Naphthylphenol	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Hexachloroethane	mg/kg	0.05	HCBATE	-	< 0.05	-	< 0.05	-

Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number				2050689	2050690	2050691	2050692	2050693
Sample Reference				TP06	TP07	TP07	TP06	TP06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.60	1.20	0.25	1.20	1.60
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection (mg/kg)	Analytical Status					
Nitrobenzene	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
4-Methylphenol	mg/kg	0.2	NDIR	-	< 0.2	-	< 0.2	-
Isophorone	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
2-Nitrophenol	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
2,4-Dimethylphenol	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Bis(2-chloroethoxy)methane	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
1,1,4-Trichlorobenzene	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Naphthalene	mg/kg	0.08	HCBATE	-	< 0.05	-	0.97	-
2,4-Dichlorophenol	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
4-Chloroaniline	mg/kg	0.1	NDIR	-	< 0.1	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	HCBATE	-	< 0.1	-	< 0.1	-
4-Chloro-2-methylphenol	mg/kg	0.1	NDIR	-	< 0.1	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	HCBATE	-	< 0.1	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NDIR	-	< 0.1	-	1.9	-
2-Chloronaphthalene	mg/kg	0.1	HCBATE	-	< 0.1	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	HCBATE	-	< 0.1	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	HCBATE	-	< 0.1	-	< 0.1	-
Acenaphthylene	mg/kg	0.08	HCBATE	-	< 0.05	-	< 0.05	-
Acenaphthene	mg/kg	0.08	HCBATE	-	< 0.05	-	4.1	-
2,4-Dinitrotoluene	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	HCBATE	-	< 0.2	-	2.6	-
4-Chlorophenyl phenyl ether	mg/kg	0.2	ISO 17038	-	< 0.2	-	< 0.2	-
Dialkyl phthalate	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Fluorene	mg/kg	0.08	HCBATE	-	< 0.05	-	2.6	-
Acenaphthene	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Bromophenyl phenyl ether	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Phenanthrene	mg/kg	0.08	HCBATE	-	< 0.05	-	15	-
Anthracene	mg/kg	0.08	HCBATE	-	< 0.05	-	2.2	-
Carbazole	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Dibutyl phthalate	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Anthraquinone	mg/kg	0.2	HCBATE	-	< 0.2	-	< 0.2	-
Fluoranthene	mg/kg	0.08	HCBATE	-	< 0.05	-	14	-
Pyrene	mg/kg	0.08	HCBATE	-	< 0.05	-	10	-
Butyl benzyl phthalate	mg/kg	0.2	ISO 17038	-	< 0.2	-	< 0.2	-
Benzo(a)anthracene	mg/kg	0.08	HCBATE	-	< 0.05	-	10	-
Chrysene	mg/kg	0.08	HCBATE	-	< 0.05	-	7.4	-
Benzo(b)fluoranthene	mg/kg	0.08	HCBATE	-	< 0.05	-	6.9	-
Benzo(k)fluoranthene	mg/kg	0.08	HCBATE	-	< 0.05	-	2.3	-
Benzo(a)pyrene	mg/kg	0.08	HCBATE	-	< 0.05	-	4.4	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.08	HCBATE	-	< 0.05	-	2.2	-
Dibenz(a,h)anthracene	mg/kg	0.08	HCBATE	-	< 0.05	-	1.3	-
Benzo(ghi)perylene	mg/kg	0.08	HCBATE	-	< 0.05	-	2.2	-

Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number				2050689	2050690	2050691	2050692	2050693
Sample Reference				TP06	TP07	TP07	TP08	TP08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.60	1.20	0.25	1.20	1.60
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection	Analytical Basis					
PCBs by GC-MS								
PCB Congener 28	mg/kg	0.001	HCBATE	-	-	< 0.001	-	-
PCB Congener 52	mg/kg	0.001	HCBATE	-	-	< 0.001	-	-
PCB Congener 101	mg/kg	0.001	HCBATE	-	-	< 0.001	-	-
PCB Congener 118	mg/kg	0.001	HCBATE	-	-	< 0.001	-	-
PCB Congener 126	mg/kg	0.001	HCBATE	-	-	< 0.001	-	-
PCB Congener 153	mg/kg	0.001	HCBATE	-	-	< 0.001	-	-
PCB Congener 180	mg/kg	0.001	HCBATE	-	-	< 0.001	-	-
Total PCBs by GC-MS								
Total PCBs	mg/kg	0.007	HCBATE	-	-	< 0.007	-	-

U/S - Unsuitable Sample I/S - Insufficient Sample

Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number	2050694	2050695	2050696	2050697	2050698
Sample Reference	TP09	TP10	WG05	WG06	TP15
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	0.60	0.10	0.60	1.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection	As per the Method		
Stone Content	%	0.1	NDIR	< 0.1	< 0.1
Moisture Content	%	0.01	NDIR	15	24
Total mass of sample received	kg	0.001	NDIR	0.60	0.60

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17018	-	Chrysotile	-	-	-
Asbestos in Soil	Type	N/A	ISO 17018	Not-detected	Detected	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17018	-	< 0.001	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17018	-	< 0.001	-	-	-

General Inorganics

pH - Automated	pH units	N/A	HCNATE	7.9	9.3	6.5	7.6	7.4
Total Cyanide	mg/kg	1	HCNATE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 15hr extraction (2-1)	mg/kg	2.8	HCNATE	29	610	360	36	610
Water Soluble SO ₄ 15hr extraction (as Calcium Equivalent)	g/l	0.00118	HCNATE	0.014	0.41	0.13	0.016	0.41
Water Soluble SO ₄ 15hr extraction (as Calcium Equivalent)	mg/l	1.18	HCNATE	14.4	405	132	17.9	405
Organic Matter	%	0.1	HCNATE	-	-	-	-	7.1
Organic Matter (automated)	%	0.1	HCNATE	2.7	6.3	6.7	6.0	-

Total Phenols

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

Naphthalene	mg/kg	0.08	HCNATE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.08	HCNATE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.08	HCNATE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.08	HCNATE	< 0.05	0.23	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.08	HCNATE	< 0.05	2.7	2.4	0.60	< 0.05
Anthracene	mg/kg	0.08	HCNATE	< 0.05	0.51	0.39	< 0.05	< 0.05
Fluoranthene	mg/kg	0.08	HCNATE	< 0.05	6.6	2.6	0.36	< 0.05
Pyrene	mg/kg	0.08	HCNATE	< 0.05	6.9	2.2	0.39	< 0.05
Benzo(a)anthracene	mg/kg	0.08	HCNATE	< 0.05	6.0	2.2	0.35	< 0.05
Chrysene	mg/kg	0.08	HCNATE	< 0.05	4.4	2.2	0.35	< 0.05
Benzo(b)fluoranthene	mg/kg	0.08	HCNATE	< 0.05	5.1	1.9	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.08	HCNATE	< 0.05	2.4	0.67	< 0.05	< 0.05
Benzo(x)pyrene	mg/kg	0.08	HCNATE	< 0.05	2.6	1.3	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.08	HCNATE	< 0.05	2.1	0.97	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.08	HCNATE	< 0.05	0.76	0.39	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.08	HCNATE	< 0.05	2.5	1.0	< 0.05	< 0.05

Total PAH

Speciated Total EPA-US PAHs	mg/kg	0.8	HCNATE	< 0.60	45.7	20.7	2.05	< 0.60
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Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number	2050694	2050695	2050696	2050697	2050698
Sample Reference	TP08	TP10	WG05	WG06	TP15
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	0.60	0.10	0.60	1.00
Date Sampled	Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	LAB	Limit of Detection	Acceptable Values		

Heavy Metals / Metalloids

Arsenic (aqueous extractable)	mg/kg	1	HCBAE	24	36	32	7.0	32
Boron (water soluble)	mg/kg	0.2	HCBAE	0.6	0.7	0.6	0.5	1.2
Cadmium (aqueous extractable)	mg/kg	0.2	HCBAE	< 0.2	< 0.2	1.2	0.3	< 0.2
Chromium (hexavalent)	mg/kg	4	HCBAE	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqueous extractable)	mg/kg	1	HCBAE	12	36	22	9.6	11
Copper (aqueous extractable)	mg/kg	1	HCBAE	45	160	270	34	110
Lead (aqueous extractable)	mg/kg	1	HCBAE	32	160	220	17	41
Mercury (aqueous extractable)	mg/kg	0.2	HCBAE	< 0.2	< 0.2	1.4	< 0.2	< 0.2
Nickel (aqueous extractable)	mg/kg	1	HCBAE	19	34	47	20	42
Selenium (aqueous extractable)	mg/kg	1	HCBAE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqueous extractable)	mg/kg	1	HCBAE	75	600	1200	1200	590

Monocyclic Aromatic Hydrocarbons

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

Petroleum Hydrocarbons

TPH C10 - C40	mg/kg	10	HCBAE	< 10	72	240	< 10	< 10
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TPH-C10 - Aliphatic >C25 - C28	mg/kg	0.001	HCBAE	-	< 0.001	-	-	-
TPH-C10 - Aliphatic >C29 - C32	mg/kg	0.001	HCBAE	-	< 0.001	-	-	-
TPH-C10 - Aliphatic >C33 - C36	mg/kg	0.001	HCBAE	-	< 0.001	-	-	-
TPH-C10 - Aliphatic >C37 - C40	mg/kg	1	HCBAE	-	< 1.0	-	-	-
TPH-C10 - Aliphatic >C41 - C44	mg/kg	2	HCBAE	-	< 2.0	-	-	-
TPH-C10 - Aliphatic >C45 - C48	mg/kg	8	HCBAE	-	< 8.0	-	-	-
TPH-C10 - Aliphatic >C49 - C52	mg/kg	8	HCBAE	-	< 8.0	-	-	-
TPH-C10 - Aliphatic (C25 - C40)	mg/kg	10	HCBAE	-	< 10	-	-	-

TPH-C10 - Aromatic >C25 - C27	mg/kg	0.001	HCBAE	-	< 0.001	-	-	-
TPH-C10 - Aromatic >C28 - C29	mg/kg	0.001	HCBAE	-	< 0.001	-	-	-
TPH-C10 - Aromatic >C30 - C31	mg/kg	0.001	HCBAE	-	< 0.001	-	-	-
TPH-C10 - Aromatic >C32 - C33	mg/kg	1	HCBAE	-	< 1.0	-	-	-
TPH-C10 - Aromatic >C34 - C35	mg/kg	2	HCBAE	-	< 2.0	-	-	-
TPH-C10 - Aromatic >C36 - C37	mg/kg	10	HCBAE	-	< 10	-	-	-
TPH-C10 - Aromatic >C38 - C39	mg/kg	10	HCBAE	-	< 10	-	-	-
TPH-C10 - Aromatic (C25 - C40)	mg/kg	10	HCBAE	-	< 10	-	-	-

VOCs

Chloromethane	µg/kg	1	ISO 17018	-	< 1.0	-	-	-
Chloromethane	µg/kg	1	ISO 17018	-	< 1.0	-	-	-
Bromomethane	µg/kg	1	ISO 17018	-	< 1.0	-	-	-
Vinyl Chloride	µg/kg	1	ISO 17018	-	< 1.0	-	-	-
Trichlorofluoromethane	µg/kg	1	ISO 17018	-	< 1.0	-	-	-
1,1-Dichloroethane	µg/kg	1	ISO 17018	-	< 1.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17018	-	< 1.0	-	-	-
1,1,2,2-tetrachloroethane	µg/kg	1	HCBAE	-	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	HCBAE	-	< 1.0	-	-	-
1,1-Dichloroethane	µg/kg	1	HCBAE	-	< 1.0	-	-	-
1,2-Dichloroethane	µg/kg	1	HCBAE	-	< 1.0	-	-	-
Trichloromethane	µg/kg	1	HCBAE	-	< 1.0	-	-	-

Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number				2050694	2050695	2050696	2050697	2050698
Sample Reference				TP09	TP10	WG05	WG06	TP15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.60	0.10	0.60	1.00
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection (mg/kg)	Assessment Status					
1,1,1-Trichloroethane	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,2-Dichloroethane	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,1-Dichloropropene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Trans-1,2-dichloroethane	mg/kg	1	NDIR	-	< 1.0	-	-	-
Benzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Tetrachloromethane	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,3-Dichloropropene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Trichloroethane	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Dibromomethane	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Bromodichloromethane	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Cis-1,2-dichloropropene	mg/kg	1	SED 17038	-	< 1.0	-	-	-
Trans-1,2-dichloropropene	mg/kg	1	SED 17038	-	< 1.0	-	-	-
Toluene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,1,2-Trichloroethane	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,2-Dichloropropene	mg/kg	1	SED 17038	-	< 1.0	-	-	-
Dibromochloromethane	mg/kg	1	SED 17038	-	< 1.0	-	-	-
Tetrachloroethane	mg/kg	1	NDIR	-	< 1.0	-	-	-
1,2-Dibromomethane	mg/kg	1	SED 17038	-	< 1.0	-	-	-
Chlorobenzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Bz/benzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
p & m-Xylene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Styrene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Trichloromethane	mg/kg	1	NDIR	-	< 1.0	-	-	-
o-Xylene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Isopropylbenzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Bromobenzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
n-Propylbenzene	mg/kg	1	SED 17038	-	< 1.0	-	-	-
2-Chlorotoluene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
4-Chlorotoluene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,2,5-Trimethylbenzene	mg/kg	1	SED 17038	-	< 1.0	-	-	-
tert-Butylbenzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,2,4-Trimethylbenzene	mg/kg	1	SED 17038	-	< 1.0	-	-	-
sec-Butylbenzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,3-Dichlorobenzene	mg/kg	1	SED 17038	-	< 1.0	-	-	-
p-Tolpropyltoluene	mg/kg	1	SED 17038	-	< 1.0	-	-	-
1,3-Dichlorobenzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,4-Dichlorobenzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Butylbenzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,3-Dibromo-2-chloropropene	mg/kg	1	SED 17038	-	< 1.0	-	-	-
1,2,4-Trichlorobenzene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
Hexachlorobutadiene	mg/kg	1	HCBATE	-	< 1.0	-	-	-
1,2,3-Trichlorobenzene	mg/kg	1	SED 17038	-	< 1.0	-	-	-

SVOCs

Aniline	mg/kg	0.1	NDIR	-	< 0.1	-	-	-
Phenol	mg/kg	0.2	SED 17038	-	< 0.2	-	-	-
2-Chlorophenol	mg/kg	0.1	HCBATE	-	< 0.1	-	-	-
Bis(2-chlorophenyl)ether	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
1,2-Dichlorobenzene	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
1,3-Dichlorobenzene	mg/kg	0.1	HCBATE	-	< 0.1	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Bis(2-chloropropyl)ether	mg/kg	0.1	HCBATE	-	< 0.1	-	-	-
2-Naphthylphenol	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Hexachloroethane	mg/kg	0.05	HCBATE	-	< 0.05	-	-	-

Analytical Report Number: 21-07040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number				2050694	2050695	2050696	2050697	2050698
Sample Reference				TP09	TP10	WG05	WG06	TP15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.60	0.10	0.60	1.00
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection (mg/kg)	Analytical Status					
Nitrobenzene	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
4-Methylphenol	mg/kg	0.2	NDNR	-	< 0.2	-	-	-
Isophorone	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
2-Nitrophenol	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
2,4-Dimethylphenol	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
1,1,4-Trichlorobenzene	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Naphthalene	mg/kg	0.08	HCBATE	-	< 0.05	-	-	-
2,4-Dichlorophenol	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
4-Chloroaniline	mg/kg	0.1	NDNR	-	< 0.1	-	-	-
Hexachlorobutadiene	mg/kg	0.1	HCBATE	-	< 0.1	-	-	-
4-Chloro-2-methylphenol	mg/kg	0.1	NDNR	-	< 0.1	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	HCBATE	-	< 0.1	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NDNR	-	< 0.1	-	-	-
2-Chloronaphthalene	mg/kg	0.1	HCBATE	-	< 0.1	-	-	-
Dimethylphthalate	mg/kg	0.1	HCBATE	-	< 0.1	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	HCBATE	-	< 0.1	-	-	-
Acenaphthylene	mg/kg	0.08	HCBATE	-	< 0.05	-	-	-
Acenaphthene	mg/kg	0.08	HCBATE	-	< 0.05	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Dibenzofuran	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.2	ISO 17038	-	< 0.2	-	-	-
Dialkyl phthalate	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
4-Nitroaniline	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Fluorene	mg/kg	0.08	HCBATE	-	0.22	-	-	-
Acenaphthene	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Hexachlorobenzene	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Phenanthrene	mg/kg	0.08	HCBATE	-	2.7	-	-	-
Anthracene	mg/kg	0.08	HCBATE	-	0.51	-	-	-
Carbazole	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Dibutyl phthalate	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Anthraquinone	mg/kg	0.2	HCBATE	-	< 0.2	-	-	-
Fluoranthene	mg/kg	0.08	HCBATE	-	6.6	-	-	-
Pyrene	mg/kg	0.08	HCBATE	-	6.9	-	-	-
Butyl benzyl phthalate	mg/kg	0.2	ISO 17038	-	< 0.2	-	-	-
Benzo(a)anthracene	mg/kg	0.08	HCBATE	-	6.0	-	-	-
Chrysene	mg/kg	0.08	HCBATE	-	4.4	-	-	-
Benzo(b)fluoranthene	mg/kg	0.08	HCBATE	-	5.1	-	-	-
Benzo(k)fluoranthene	mg/kg	0.08	HCBATE	-	2.4	-	-	-
Benzo(a)pyrene	mg/kg	0.08	HCBATE	-	2.6	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.08	HCBATE	-	2.1	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.08	HCBATE	-	0.76	-	-	-
Benzo(ghi)perylene	mg/kg	0.08	HCBATE	-	2.5	-	-	-

Analytical Report Number: 21-67040
Project / Site name: Afan Way, Port Talbot

Lab Sample Number				2050694	2050695	2050696	2050697	2050698
Sample Reference				TP09	TP10	WG05	WG06	TP15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.60	0.10	0.60	1.00
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Unit	Limit of Detection (mg/kg)	Analytical Status					
PCBs by GC-MS								
PCB Congener 28	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	HCBAE	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	HCBAE	-	-	-	-	-
Total PCBs by GC-MS								
Total PCBs	mg/kg	0.001	HCBAE	-	-	-	-	-

U/S - Unsuitable Sample I/S - Insufficient Sample



Analytical Report Number: 21-17040
Project / Site name: Afan Way, Port Talbot
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

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

Quantitative Analysis

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

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

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

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
2050885	TP02	0.30	146	Loose Fibres	Chrysotile & Amosite & Crocidolite	0.003	0.003
2050889	TP06	1.60	135	Loose Fibres	Chrysotile	< 0.001	< 0.001
2050891	TP07	0.25	167	Loose Fibrous Debris & Sheeting/Board Debris	Chrysotile & Amosite	0.040	0.040
2050895	TP10	0.60	146	Loose Fibres	Chrysotile	< 0.001	< 0.001

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