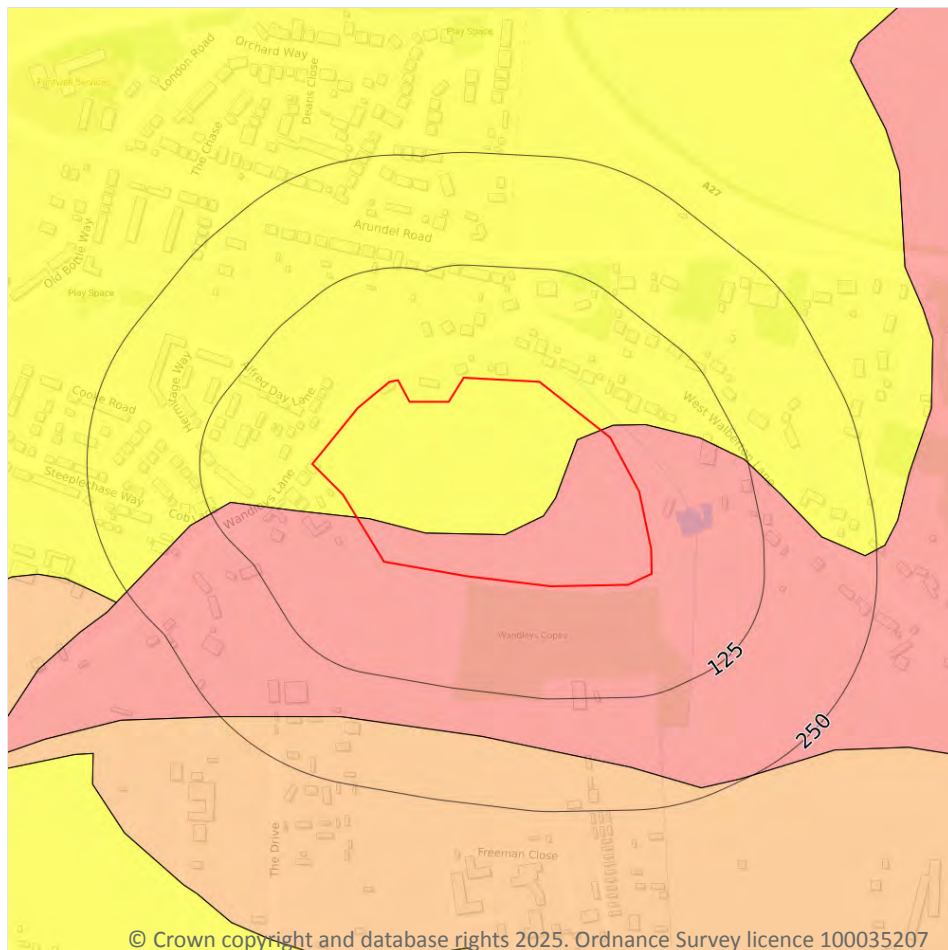


17 Natural ground subsidence - Shrink swell clays



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

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17.1 Shrink swell clays

Records within 50m

2

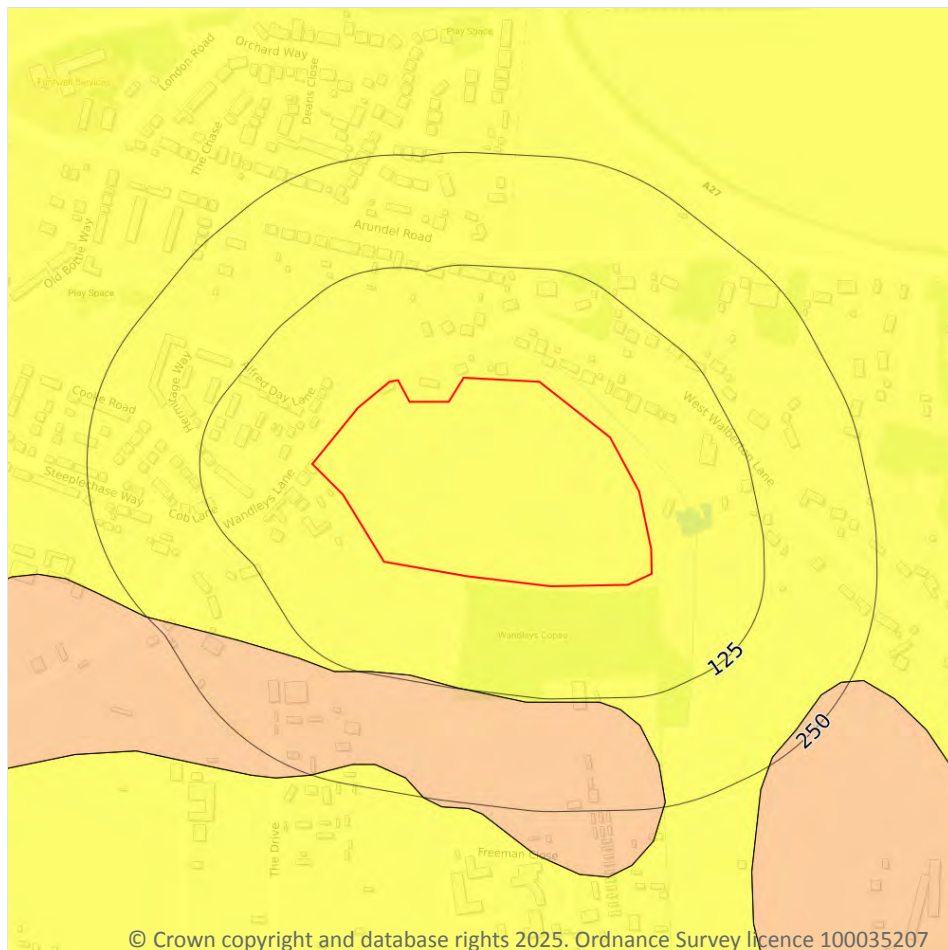
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 86](#) >

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
On site	Moderate	Ground conditions predominantly high plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

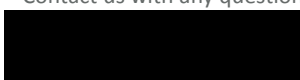
1

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.

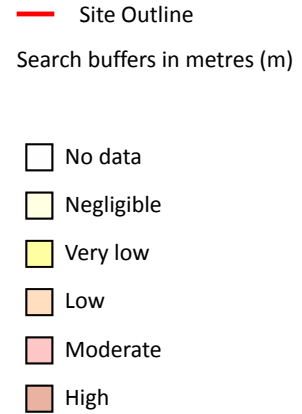
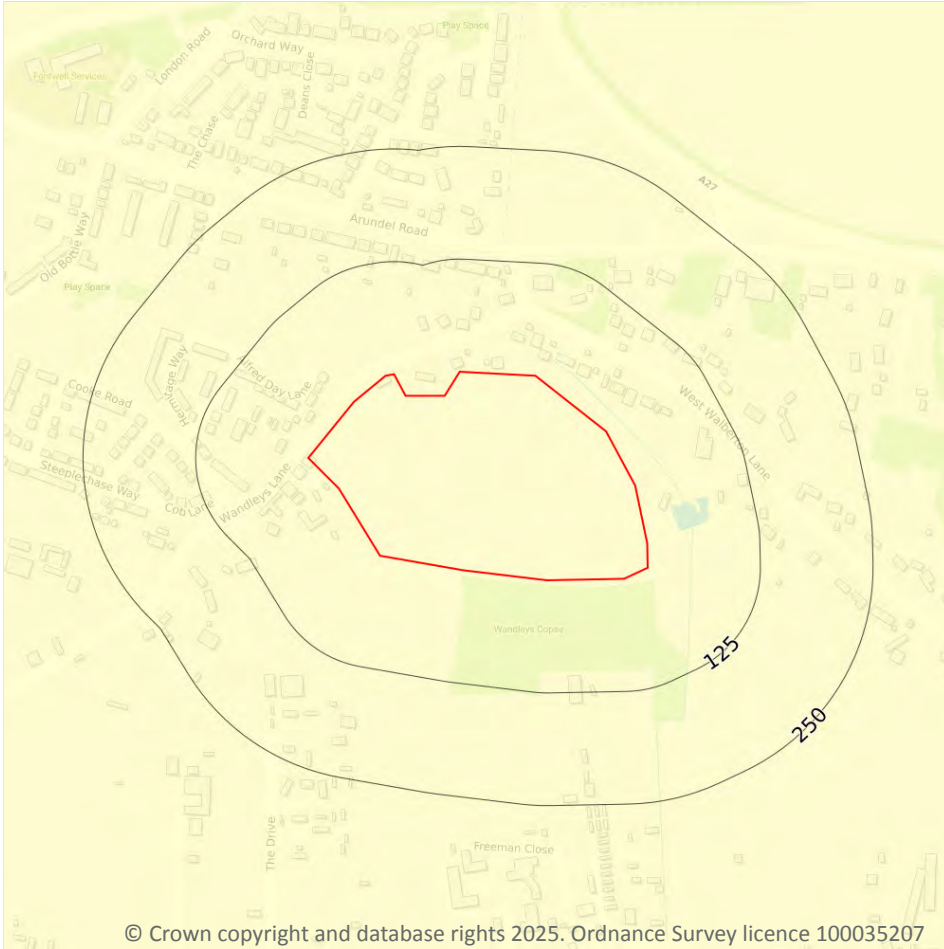
Features are displayed on the Natural ground subsidence - Running sands map on [page 87 >](#)

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

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.

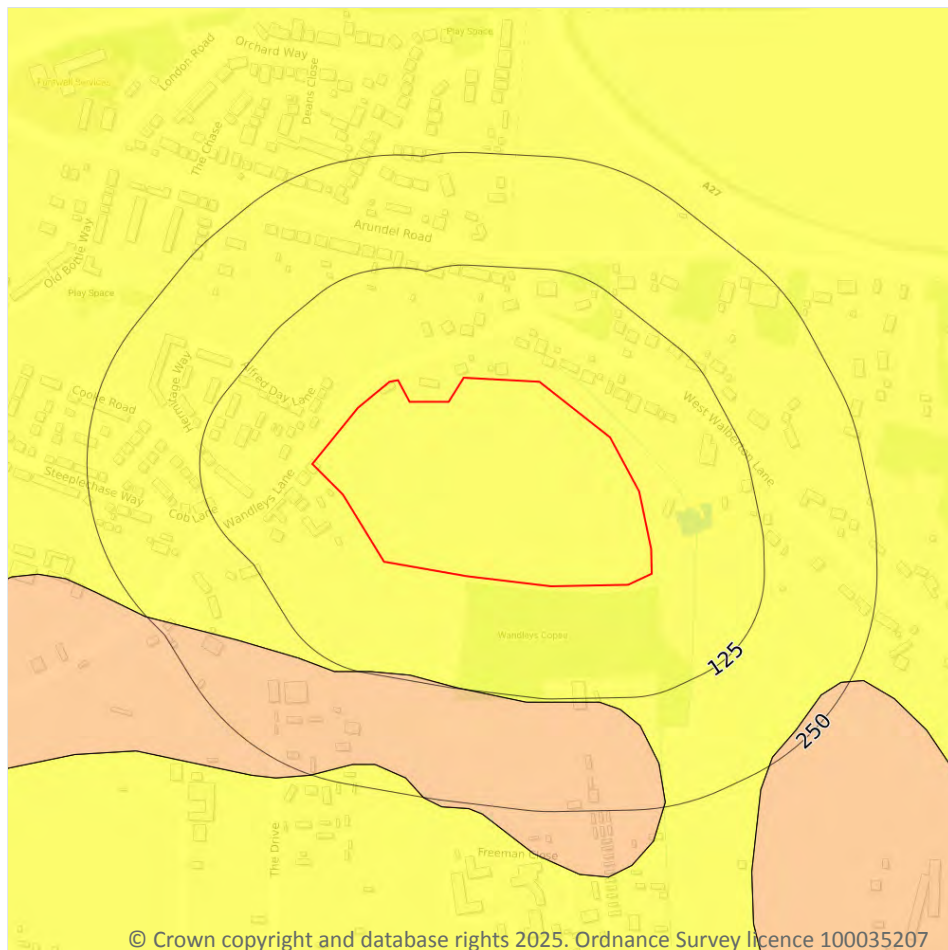
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 88](#) >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

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

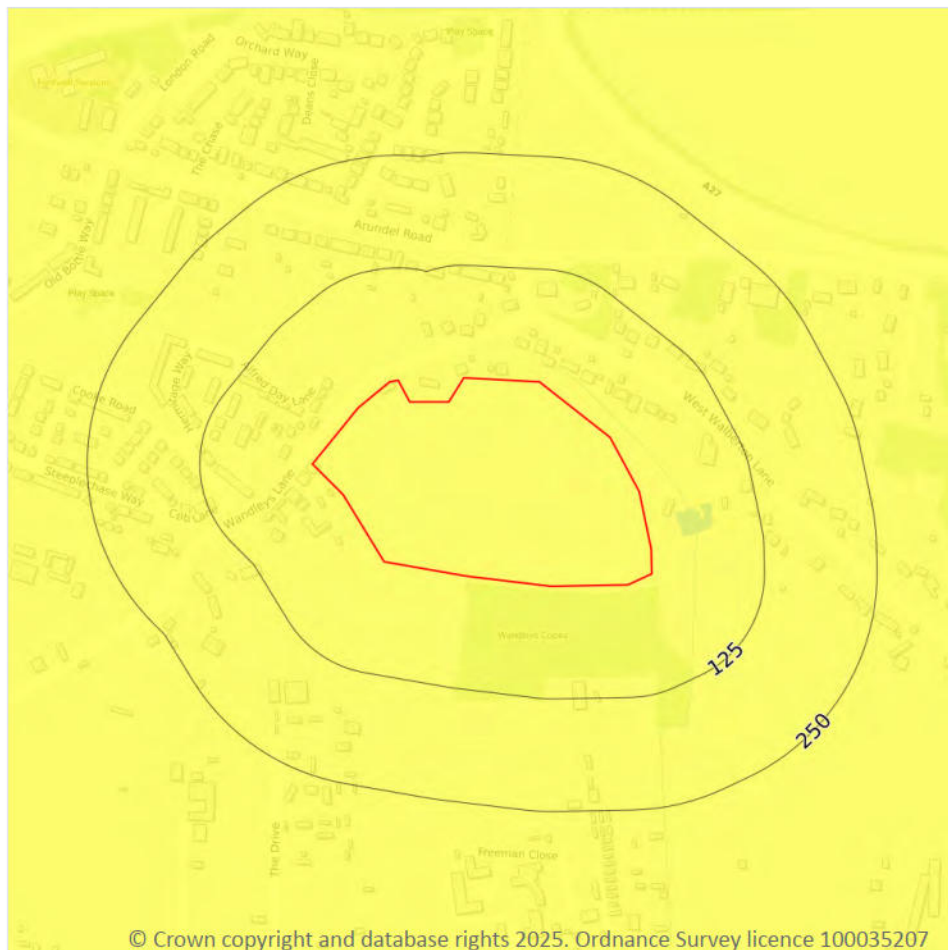
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 89](#) >

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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

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17.5 Landslides

Records within 50m

1

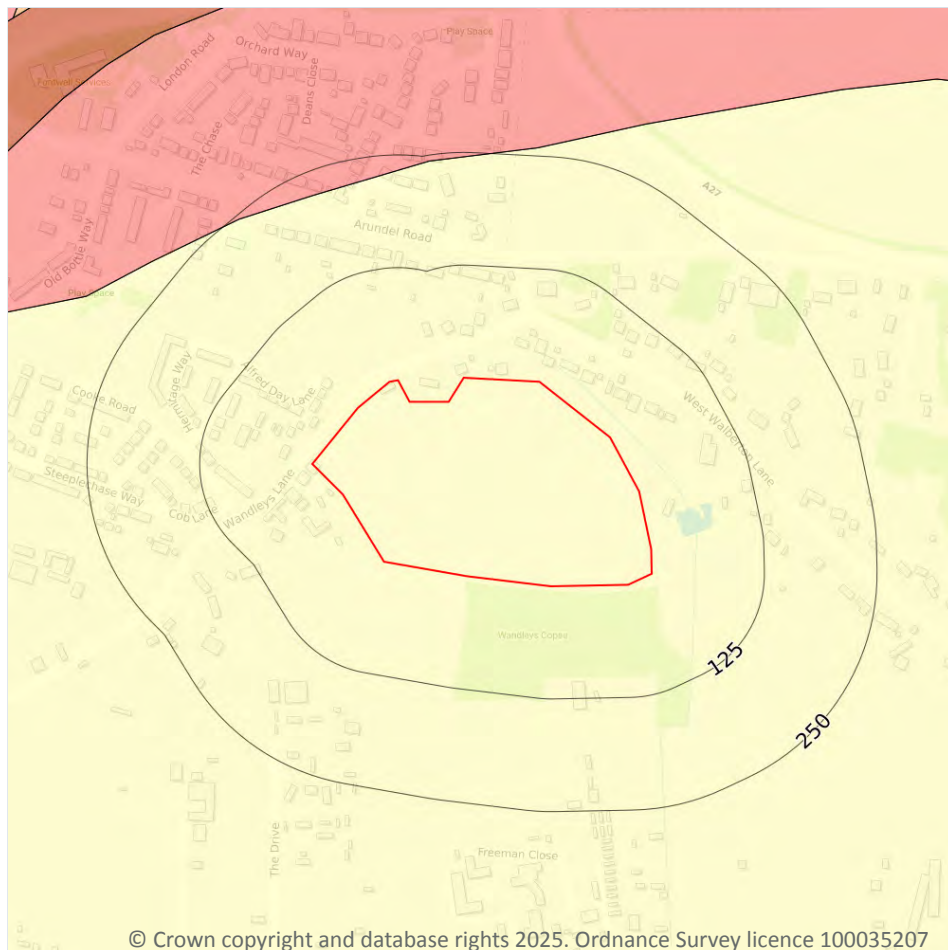
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on [page 90](#) >

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

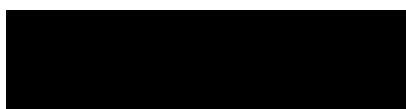
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 91](#)

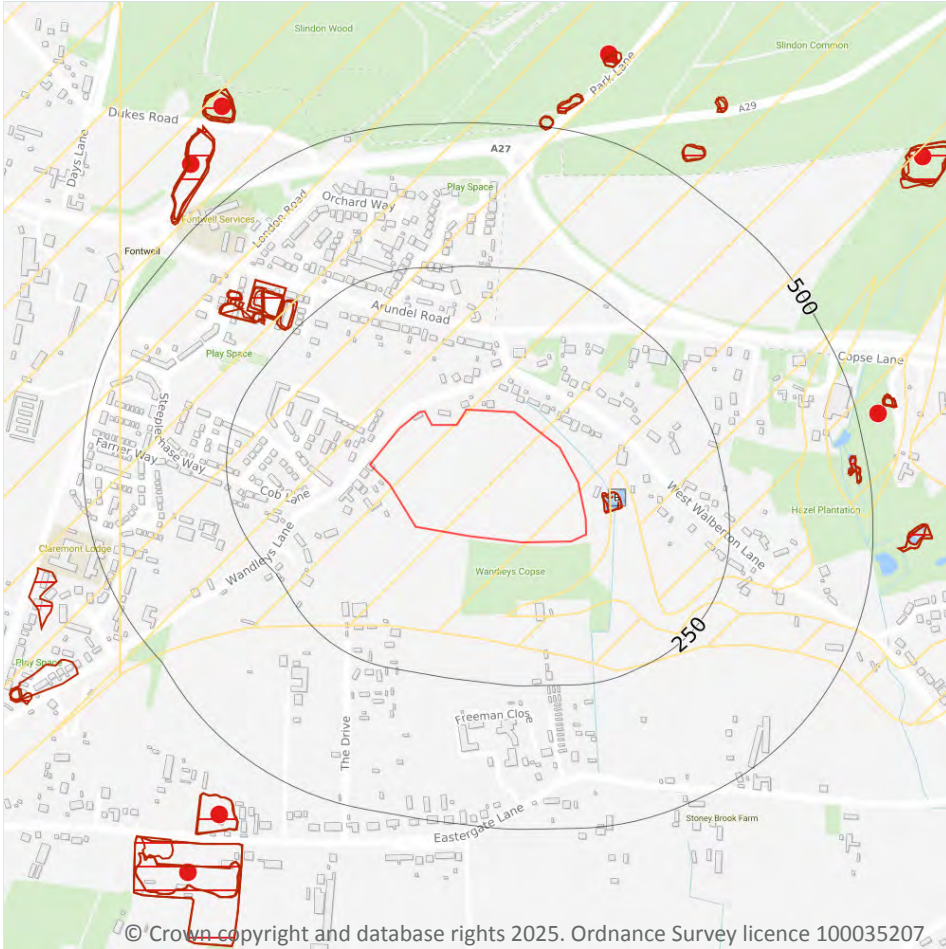
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



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

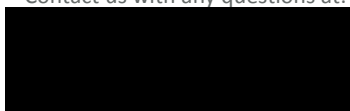
18.1 BritPits

Records within 500m

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.



18.2 Surface ground workings

Records within 250m

3

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

Features are displayed on the Mining and ground workings map on [page 93](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
B	35m E	Pond	1961	1:10560
B	36m E	Pond	1990	1:10000
B	36m E	Pond	1979	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

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

2

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).

Features are displayed on the Mining and ground workings map on [page 93](#) >

ID	Location	Name	Commodity	Class	Likelihood
A	On site	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
1	435m W	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m**0**

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m**0**

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m**0**

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site**0**

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site**0**

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

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

18.14 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

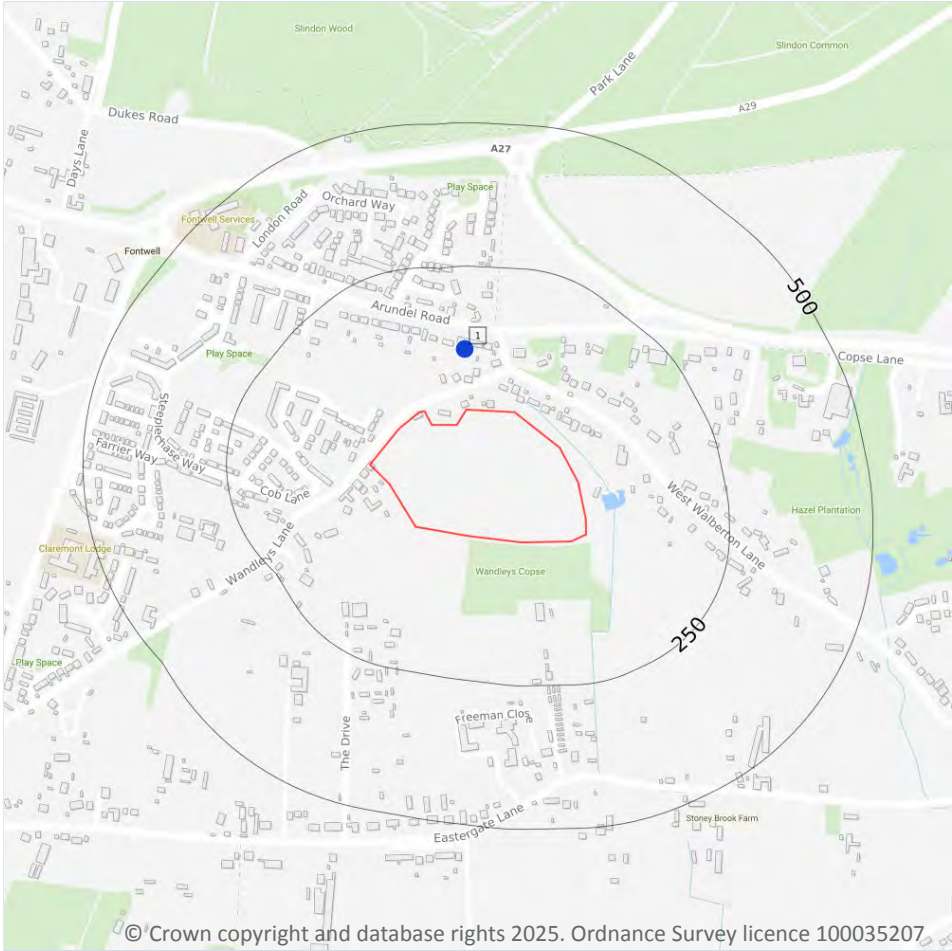
18.16 Clay mining

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

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

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

19 Ground cavities and sinkholes



19.1 Natural cavities

Records within 500m

1

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.

Features are displayed on the Ground cavities and sinkholes map on [page 98](#) >

ID	Location	Details
1	105m N	Type: Sinkhole x 70 Superficial Geology: Brickearth/head, Raised beach and marine deposits Bedrock Geology: Chalk Group

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m**0**

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m**0**

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

This data is sourced from Groundsure.

19.4 Historical incidents

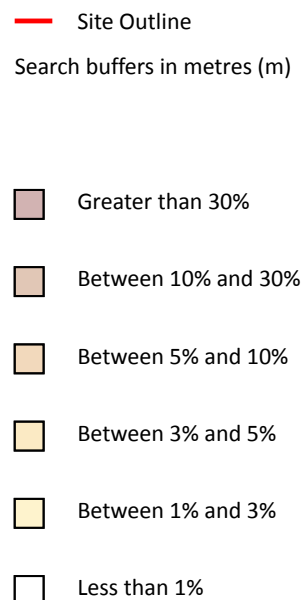
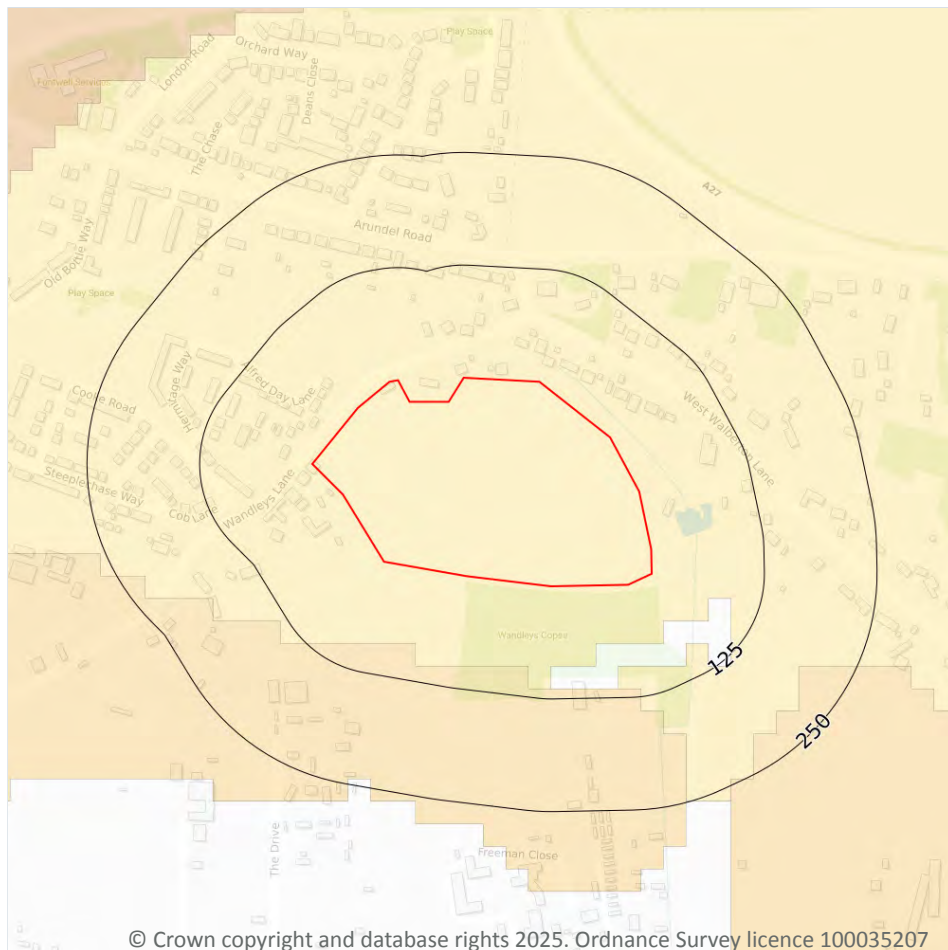
Records within 500m**0**

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

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

This data is sourced from Groundsure.

20 Radon



20.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 100 >](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None



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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

4

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	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
40m E	15 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.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m**0**

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.

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m**0**

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



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.

Data providers

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

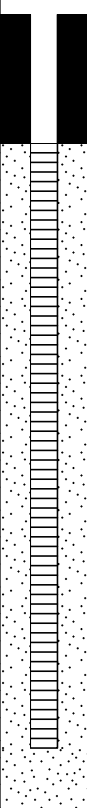
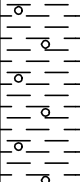
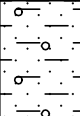
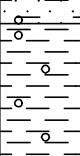
Terms and conditions

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

Appendix 2 – Exploratory Hole Records



Site Wandleys Lane, Arundel				WS1
Job No CRM.1668.044	Dates Start 31-07-25 Finish 31-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

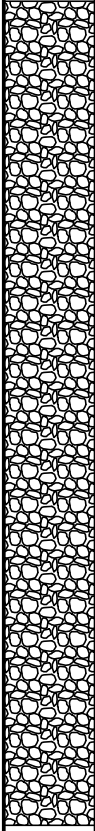
Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description		
		Depth (m)	No/Type	Results						
		0.30	ES		0.70			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0	
		1.00 - 1.45 1.00	SPTLS D	N=20				Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint. 1.00 - 1.45 Stiff, high strength.	1	
		2.00 - 2.45 2.00	SPTLS D	N=13			2.00		2.00 - 2.45 Medium dense. White slightly clayey slightly gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of chalk.	2
		3.00 - 3.45 3.00	SPTLS D	N=8			3.00		3.00 - 3.45 Soft to firm, low strength. Soft to firm creamish white CLAY with occasional angular and subangular fine to coarse chalk gravel.	3
		4.00 - 4.45 4.00	SPTLS D	N=7			4.00		4.00 - 4.45 Loose. Yellow fine to coarse SAND.	4
		5.00 - 5.45 5.00	SPTLS D	N=13			5.45		5.00 - 5.45 Medium dense.	5
					Borehole completed at 5.45m.	6				
					{8.00}				7	
									8	

General Remarks
 EQUIPMENT: Archway Dart window sampling rig.
 METHOD: Dynamic sampled 0.00m-5.00mbgl.
 CASING: No casing used.
 REMARKS: Groundwater not encountered.
 BACKFILL: On completion, a slotted pipe (50mm) was installed to 5.00mbgl, granular response zone (5.00m-1.00m), bentonite seal 1.00m-0.15m, gas valve and flush steel cover 0.15m-0.00m.

Groundwater	Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
All dimensions in metres Scale 1:50 Logged By GH				



Site Wandleys Lane, Arundel				WS2
Job No CRM.1668.044	Dates Start 01-08-25 Finish 01-08-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.30			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=23				Firm brown orangish brown very gravelly CLAY. Gravel is angular and subangular fine to coarse of flint.	1
		2.00 - 2.45 2.00	SPTLS D	N=8				1.00 - 1.45 Stiff, high strength.	
		3.00 - 3.45 3.00	SPTLS D	N=12	3.00			2.00 - 2.45 Soft to firm, low strength.	2
		4.00 - 4.45 4.00	SPTLS D	N=12				3.00 - 3.45 Firm, medium strength. Firm creamish brown CLAY.	3
		5.00 - 5.45 5.00	SPTLS D	N=19	4.50 5.45			4.00 - 4.45 Firm, medium strength. Yellowish brown fine to coarse SAND.	4
								5.00 - 5.45 Medium dense.	5
								Borehole completed at 5.45m.	6
									7
					{8.00}				8

General Remarks EQUIPMENT: Archway Dart window sampling rig. METHOD: Dynamic sampled 0.00m-5.00mbgl. CASING: No casing used. REMARKS: Groundwater not encountered. BACKFILL: On completion, the borehole was backfilled with arisings.				
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Groundwater	Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
All dimensions in metres Scale 1:50		Logged By GH		



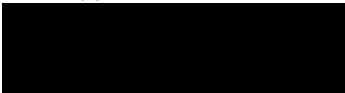
Site Wandleys Lane, Arundel				WS3
Job No CRM.1668.044	Dates Start 30-07-25 Finish 30-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.50			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=9				Firm brown slightly sandy very gravelly CLAY. Sand is fine. Gravel is angular and subangular fine to coarse of flint. 1.00 - 1.45 Firm, low strength	1
		2.00 - 2.45 2.00	SPTLS D	N=15	1.90			Firm white CLAY with occasional angular and subangular medium chalk and flint gravel. 2.00 - 2.45 Firm to stiff, medium strength.	2
		3.00 - 3.45 3.00	SPTLS D	N=10	2.70			Firm creamish brown slightly sandy CLAY. Sand is fine. 3.00 - 3.45 Firm, medium strength.	3
		4.00 - 4.45 4.00	SPTLS D	N=17	3.80			Yellow fine to coarse SAND. 4.00 - 4.45 Medium dense.	4
		5.00 - 5.45 5.00	SPTLS D	N=20	5.45			5.00 - 5.45 Medium dense.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks				
EQUIPMENT: Archway Dart window sampling rig.				
METHOD: Dynamic sampled 0.00m-5.00mbgl.				
CASING: No casing used.				
REMARKS: Groundwater encountered at 4.50mbgl.				
BACKFILL: On completion, the borehole was backfilled with arisings.				

Groundwater	Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
	30/07/25	4.50		

All dimensions in metres Scale 1:50	Logged By GH
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Site Wandleys Lane, Arundel				WS4
Job No CRM.1668.044	Dates Start 30-07-25 Finish 30-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

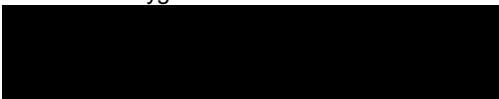
Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.50			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=11	1.50			Firm brown very gravelly CLAY. Gravel is angular and subangular fine to coarse of flint. 1.00 - 1.45 Firm, medium strength.	1
		2.00 - 2.45 2.00	SPTLS D	N=11	2.70			Firm orangish brown slightly sandy CLAY. Sand is fine. 2.00 - 2.45 Firm, medium strength.	2
		3.00 - 3.45 3.00	SPTLS D	N=3				Orangish brown fine to coarse SAND. 3.00 - 3.45 Very loose.	3
		4.00 - 4.45 4.00	SPTLS D	N=9				4.00 - 4.45 Loose.	4
		5.00 - 5.45 5.00	SPTLS D	N=9	5.45			5.00 - 5.45 Loose.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks				
EQUIPMENT: Archway Dart window sampling rig.				
METHOD: Dynamic sampled 0.00m-5.00mbgl.				
CASING: No casing used.				
REMARKS: Groundwater encountered at 4.00mbgl.				
BACKFILL: On completion, the borehole was backfilled with arisings.				

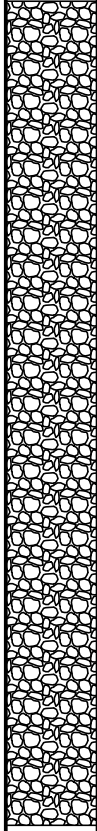
Groundwater	Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
	30/07/25	4.00		

All dimensions in metres Scale 1:50	Logged By GH
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1.0 ENZYGO WS LOG CRM.1668.044 ARUNDEL.GPJ GINT STD AGS 3.1 ENZYGO.GPJ 16/8/25



Site Wandleys Lane, Arundel				WS5
Job No CRM.1668.044	Dates Start 30-07-25 Finish 30-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES					Grass over light creamish brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=13	0.90 1.00			Firm brown very gravelly CLAY. Gravel is angular and subangular fine to coarse of flint.	1
		2.00 - 2.45 2.00	SPTLS D	N=11	2.10			1.00 - 1.45 Firm, medium strength. Firm brown slightly sandy very gravelly CLAY. Sand is fine. Gravel is angular and subangular fine to coarse of flint.	2
		3.00 - 3.45 3.00	SPTLS D	N=20	3.40			2.00 - 2.45 Firm, medium strength. Firm white CLAY with occasional angular and subangular medium chalk and flint gravel.	3
		4.00 - 4.45 4.00	SPTLS D	N=7	4.20			3.00 - 3.45 Stiff, high strength.	4
		5.00 - 5.45 5.00	SPTLS D	N=22	5.45			Soft creamish brown mottled orangish brown very sandy CLAY. Sand is fine. Light brown fine to coarse SAND.	5
					{8.00}			5.00 - 5.45 Medium dense.	6
								Borehole completed at 5.45m.	7
									8

General Remarks

EQUIPMENT: Archway Dart window sampling rig.
METHOD: Dynamic sampled 0.00m-5.00mbgl.
CASING: No casing used.
REMARKS: Groundwater encountered at 4.90mbgl.
BACKFILL: On completion, the borehole was backfilled with arisings.

Groundwater

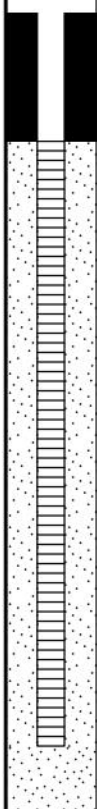
Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
30/07/25	4.90		

All dimensions in metres
Scale 1:50

Logged By
GH



Site Wandleys Lane, Arundel				WS6
Job No CRM.1668.044	Dates Start 31-07-25 Finish 31-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.30			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=12				Firm orangish brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint.	1
		2.00 - 2.45 2.00	SPTLS D	N=8				1.00 - 1.45 Firm, medium strength.	
		3.00 - 3.45 3.00	SPTLS D	N=14				2.00 - 2.45 Soft to firm, low strength.	2
		4.00 - 4.45 4.00	SPTLS D	N=4	3.50			3.00 - 3.45 Firm, medium strength.	3
		5.00 - 5.45 5.00	SPTLS D	N=8	4.80			Soft pale grey CLAY.	4
					5.45			Yellowish brown fine to coarse SAND. 5.00 - 5.45 Loose.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks

EQUIPMENT: Archway Dart window sampling rig.
 METHOD: Dynamic sampled 0.00m-5.00mbgl.
 CASING: No casing used.
 REMARKS: Groundwater not encountered.
 BACKFILL: On completion, a slotted pipe (50mm) was installed to 5.00mbgl, granular response zone (5.00m-1.00m), bentonite seal 1.00m-0.15m, gas valve and flush steel cover 0.15m-0.00m.

Groundwater

Date

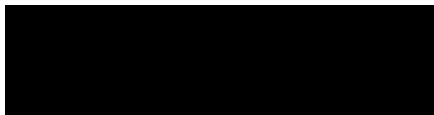
Strike Depth
(m)

Casing Depth
(m)

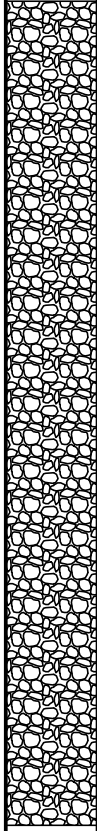
Depth After
Observation
(m)

All dimensions in metres
Scale 1:50

Logged By
GH



Site Wandleys Lane, Arundel				WS7
Job No CRM.1668.044	Dates Start 30-07-25 Finish 30-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.50			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=14				Firm brown mottled orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of flint. 1.00 - 1.45 Firm, medium strength.	1
		2.00 - 2.45 2.00	SPTLS D	N=14	2.00			2.00 - 2.45 Firm, medium strength. Firm white CLAY with occasional angular and subangular medium chalk and flint gravel.	2
		3.00 - 3.45 3.00	SPTLS D	N=22	3.00			3.00 - 3.45 Stiff, high strength. Soft greyish cream slightly sandy CLAY. Sand is fine.	3
		4.00 - 4.45 4.00	SPTLS D	N=5	4.20				4
		5.00 - 5.45 5.00	SPTLS D	N=20	5.45			Yellow fine to coarse SAND. 5.00 - 5.45 Medium dense.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks

EQUIPMENT: Archway Dart window sampling rig.
 METHOD: Dynamic sampled 0.00m-5.00mbgl.
 CASING: No casing used.
 REMARKS: Groundwater encountered at 5.00mbgl.
 BACKFILL: On completion, the borehole was backfilled with arisings.

Groundwater

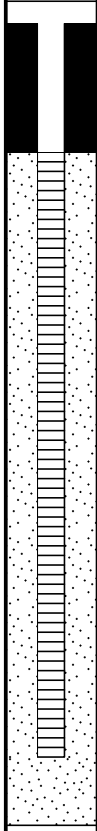
Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
30/07/25	5.00		

ALL dimensions in metres
Scale 1:50

Logged By
GH



Site Wandleys Lane, Arundel				WS8
Job No CRM.1668.044	Dates Start 30-07-25 Finish 30-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES					Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=14	1.00			1.00 - 1.45 Firm, medium strength. Firm brown mottled orange very gravelly CLAY. Gravel is angular and subangular fine to coarse of flint.	1
		2.00 - 2.45 2.00	SPTLS D	N=9				2.00 - 2.45 Firm, low strength.	2
		3.00 - 3.45 3.00	SPTLS D	N=18	2.80 3.50			Firm creamish brown CLAY. 3.00 - 3.45 Stiff, medium strength.	3
		4.00 - 4.45 4.00	SPTLS D	N=11				Orangish brown fine to coarse SAND. 4.00 - 4.45 Medium dense.	4
		5.00 - 5.45 5.00	SPTLS D	N=8	5.45			5.00 - 5.45 Loose.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks

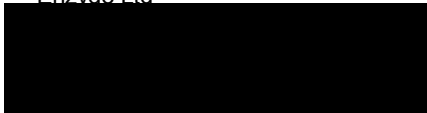
EQUIPMENT: Archway Dart window sampling rig.
METHOD: Dynamic sampled 0.00m-5.00mbgl.
CASING: No casing used.
REMARKS: Groundwater encountered at 4.50mbgl.
BACKFILL: On completion, a slotted pipe (50mm) was installed to 5.00mbgl, granular response zone (5.00m-1.00m), bentonite seal 1.00m-0.15m, gas valve and flush steel cover 0.15m-0.00m.

Groundwater

Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
30/07/25	4.50		

All dimensions in metres
Scale 1:50

Logged By
GH



Site Wandleys Lane, Arundel						WS9	
Job No CRM.1668.044		Dates Start 30-07-25 Finish 30-07-25		Ground Level (m)			
Client Bellway Homes						Sheet 1 of 1	

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.50		 Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0	
		1.00 - 1.45 1.00	SPTLS D	N=10			 Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint. 1.00 - 1.45 Firm, medium strength.	1	
		2.00 - 2.45 2.00	SPTLS D	N=12		1.90 2.10	 Firm creamish brown and white CLAY. 2.00 - 2.45 Firm, medium strength. Firm creamish brown slightly sandy CLAY. Sand is fine.	2	
		3.00 - 3.45 3.00	SPTLS D	N=8		3.20		3	
		4.00 - 4.45 4.00	SPTLS D	N=12			 Yellow fine to coarse SAND. 4.00 - 4.45 Medium dense.	4	
		5.00 - 5.45 5.00	SPTLS D	N=17		5.45	 5.00 - 5.45 Medium dense.	5	
					{8.00}		Borehole completed at 5.45m.	6	
								7	
								8	

General Remarks
 EQUIPMENT: Archway Dart window sampling rig.
 METHOD: Dynamic sampled 0.00m-5.00mbgl.
 CASING: No casing used.
 REMARKS: Groundwater encountered at 4.00mbgl.
 BACKFILL: On completion, the borehole was backfilled with arisings.

Groundwater	Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
	30/07/25	4.00		

All dimensions in metres Scale 1:50	Logged By GH
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Site Wandleys Lane, Arundel				WS10
Job No CRM.1668.044	Dates Start 30-07-25 Finish 30-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.40			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=9	1.30			Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint. 1.00 - 1.45 Firm, low strength.	1
		2.00 - 2.45 2.00	SPTLS D	N=5	2.70			Soft creamish brown slightly sandy CLAY. Sand is fine. 2.00 - 2.45 Soft, low strength.	2
		3.00 - 3.45 3.00	SPTLS D	N=5				Orangish brown fine to coarse SAND. 3.00 - 3.45 Loose.	3
		4.00 - 4.45 4.00	SPTLS D	N=20				4.00 - 4.45 Medium dense.	4
		5.00 - 5.45 5.00	SPTLS D	N=15	5.45			5.00 - 5.45 Medium dense.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

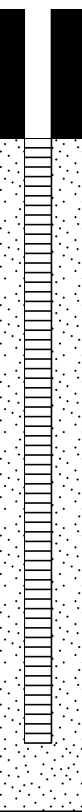
General Remarks				
EQUIPMENT: Archway Dart window sampling rig.				
METHOD: Dynamic sampled 0.00m-5.00mbgl.				
CASING: No casing used.				
REMARKS: Groundwater encountered at 3.20mbgl.				
BACKFILL: On completion, the borehole was backfilled with arisings.				

Groundwater	Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
	30/07/25	3.20		

All dimensions in metres Scale 1:50	Logged By GH
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Site Wandleys Lane, Arundel				WS11
Job No CRM.1668.044	Dates Start 31-07-25 Finish 31-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.50			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=15	1.50			Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint. 1.00 - 1.45 Firm to stiff, medium strength.	1
		2.00 - 2.45 2.00	SPTLS D	N=8	2.60			Firm creamish brown slightly sandy CLAY. Sand is fine. 2.00 - 2.45 Soft to firm, low strength.	2
		3.00 - 3.45 3.00	SPTLS D	N=11	5.45			Yellowish brown fine to coarse SAND. 3.00 - 3.45 Medium dense.	3
		4.00 - 4.45 4.00	SPTLS D	N=14				4.00 - 4.45 Medium dense.	4
		5.00 - 5.45 5.00	SPTLS D	N=13				5.00 - 5.45 Medium dense.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks
EQUIPMENT: Archway Dart window sampling rig.
METHOD: Dynamic sampled 0.00m-5.00mbgl.
CASING: No casing used.
REMARKS: Groundwater encountered at 4.00mbgl.
BACKFILL: On completion, a slotted pipe (50mm) was installed to 5.00mbgl, granular response zone (5.00m-1.00m), bentonite seal 1.00m-0.15m, gas valve and flush steel cover 0.15m-0.00m.

Groundwater	Date 31/07/25	Strike Depth (m) 4.00	Casing Depth (m)	Depth After Observation (m)
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All dimensions in metres Scale 1:50	Logged By GH
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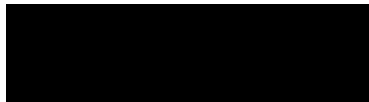


Site Wandleys Lane, Arundel				WS12
Job No CRM.1668.044	Dates Start 31-07-25 Finish 31-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

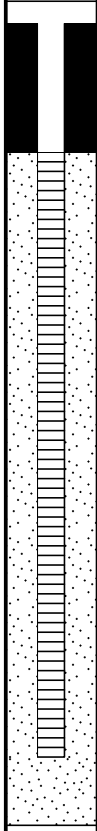
Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.50			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=19				Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint.	1
		2.00 - 2.45 2.00	SPTLS D	N=9				1.00 - 1.45 Stiff, high strength.	
								2.00 - 2.45 Firm, low strength.	2
		3.00 - 3.45 3.00	SPTLS D	N=6	2.80			Soft white slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of flint and chalk.	3
		4.00 - 4.45 4.00	SPTLS D	N=12	3.90			3.00 - 3.45 Soft, low strength.	
		5.00 - 5.45 5.00	SPTLS D	N=26	5.45			Yellowish brown fine to coarse SAND. 4.00 - 4.45 Medium dense.	4
								5.00 - 5.45 Medium dense.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks				
EQUIPMENT: Archway Dart window sampling rig.				
METHOD: Dynamic sampled 0.00m-5.00mbgl.				
CASING: No casing used.				
REMARKS: Groundwater not encountered.				
BACKFILL: On completion, the borehole was backfilled with arisings.				

Groundwater	Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
All dimensions in metres Scale 1:50				
				Logged By GH



Site Wandleys Lane, Arundel				WS13
Job No CRM.1668.044	Dates Start 31-07-25 Finish 31-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.60			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=21				Firm to stiff brown very gravelly CLAY. Gravel is angular and subangular fine to coarse of flint. 1.00 - 1.45 Stiff, high strength.	1
		2.00 - 2.45 2.00	SPTLS D	N=13	2.00			2.00 - 2.45 Firm, medium strength. Firm creamish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of chalk.	2
		3.00 - 3.45 3.00	SPTLS D	N=8	3.00			3.00 - 3.45 Loose. Yellowish brown fine to coarse SAND.	3
		4.00 - 4.45 4.00	SPTLS D	N=18				4.00 - 4.45 Medium dense.	4
		5.00 - 5.45 5.00	SPTLS D	N=23	5.45			5.00 - 5.45 Medium dense.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks

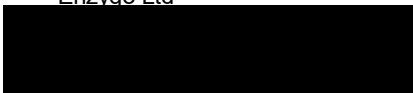
EQUIPMENT: Archway Dart window sampling rig.
 METHOD: Dynamic sampled 0.00m-5.00mbgl.
 CASING: No casing used.
 REMARKS: Groundwater encountered at 4.00mbgl.
 BACKFILL: On completion, a slotted pipe (50mm) was installed to 5.00mbgl, granular response zone (5.00m-1.00m), bentonite seal 1.00m-0.15m, gas valve and flush steel cover 0.15m-0.00m.

Groundwater

Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
31/07/25	4.00		

All dimensions in metres
Scale 1:50

Logged By
GH



Site Wandleys Lane, Arundel				WS14
Job No CRM.1668.044	Dates Start 31-07-25 Finish 31-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

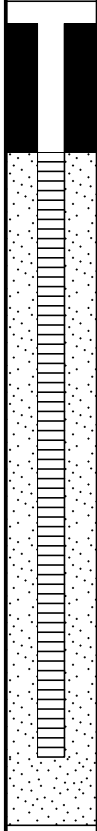
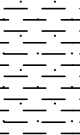
Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.40			Grass over slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=40				Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint. 1.00 - 1.45 Very stiff, very high strength.	1
		2.00 - 2.45 2.00	SPTLS D	N=8	1.90			Yellowish brown slightly gravelly fine to coarse SAND. Gravel is angular and subangular fine and medium of flint. 2.00 - 2.45 Loose.	2
		3.00 - 3.45 3.00	SPTLS D	N=8				3.00 - 3.45 Loose.	3
		4.00 - 4.45 4.00	SPTLS D	N=7				4.00 - 4.45 Loose.	4
		5.00 - 5.45 5.00	SPTLS D	N=7	5.45			5.00 - 5.45 Loose.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks				
EQUIPMENT: Archway Dart window sampling rig.				
METHOD: Dynamic sampled 0.00m-5.00mbgl.				
CASING: No casing used.				
REMARKS: Groundwater not encountered.				
BACKFILL: On completion, the borehole was backfilled with arisings.				

Groundwater	Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
All dimensions in metres Scale 1:50				
				Logged By GH



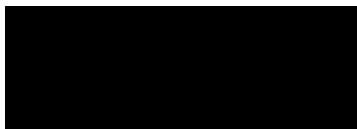
Site Wandleys Lane, Arundel				WS15
Job No CRM.1668.044	Dates Start 31-07-25 Finish 31-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.40			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45	SPTLS	N=12	1.00			Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint.	1
		1.00	D						
		2.00 - 2.45	SPTLS	N=10				1.00 - 1.45 Medium dense. Brown mottled cream fine to coarse SAND.	2
		2.00	D						
		3.00 - 3.45	SPTLS	N=9	3.50			2.00 - 2.45 Loose to medium dense.	3
		3.00	D						
		4.00 - 4.45	SPTLS	N=14	4.70			3.00 - 3.45 Loose.	4
		4.00	D						
		5.00 - 5.45	SPTLS	N=21	5.45			Firm orangish brown slightly sandy CLAY. Sand is fine to coarse.	5
		5.00	D						
					{8.00}			5.00 - 5.45 Firm, medium strength.	6
								Firm to stiff pale bluish grey CLAY.	7
								5.00 - 5.45 Stiff, high strength.	8
								Borehole completed at 5.45m.	

General Remarks

EQUIPMENT: Archway Dart window sampling rig.
 METHOD: Dynamic sampled 0.00m-5.00mbgl.
 CASING: No casing used.
 REMARKS: Groundwater not encountered.
 BACKFILL: On completion, a slotted pipe (50mm) was installed to 5.00mbgl, granular response zone (5.00m-1.00m), bentonite seal 1.00m-0.15m, gas valve and flush steel cover 0.15m-0.00m.

Groundwater	Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
All dimensions in metres Scale 1:50				
				Logged By GH



Site Wandleys Lane, Arundel				WS16
Job No CRM.1668.044	Dates Start 01-08-25 Finish 01-08-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.30			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=13	1.00			Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint.	1
		2.00 - 2.45 2.00	SPTLS D	N=6	2.00			1.00 - 1.45 Medium dense. Orangish brown mottled grey slightly clayey fine to coarse SAND.	2
		3.00 - 3.45 3.00	SPTLS D	N=2				2.00 - 2.45 Loose. Yellowish brown slightly gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	3
		4.00 - 4.36 4.00	SPTLS D	N=50	4.36			3.00 - 3.45 Very loose. 4.00 - 4.36 Very dense. Refused at 4.36mbgl.	4
					{8.00}			Borehole completed at 4.36m.	5
									6
									7
									8

General Remarks

EQUIPMENT: Archway Dart window sampling rig.
 METHOD: Dynamic sampled 0.00m-4.00mbgl.
 CASING: No casing used.
 REMARKS: Groundwater not encountered.
 BACKFILL: On completion, the borehole was backfilled with arisings.

Groundwater

Date

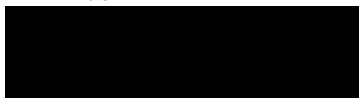
Strike Depth
(m)

Casing Depth
(m)

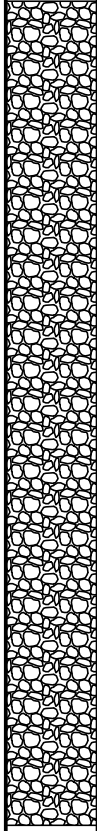
Depth After
Observation
(m)

All dimensions in metres
Scale 1:50

Logged By
GH



Site Wandleys Lane, Arundel				WS17
Job No CRM.1668.044	Dates Start 31-07-25 Finish 31-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES		0.40			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45	SPTLS	N=8	1.00			Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint.	1
		2.00 - 2.45	SPTLS	N=13	2.00			1.00 - 1.45 Soft to firm, low strength. Firm brown mottled white slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of chalk and flint.	2
		3.00 - 3.45	SPTLS	N=7	3.20			2.00 - 2.45 Firm, medium strength. Soft brown mottled grey very sandy CLAY. Sand is fine and medium	3
		4.00 - 4.45	SPTLS	N=15	5.45			Yellowish brown fine to coarse SAND. 4.00 - 4.45 Medium dense.	4
		5.00 - 5.45	SPTLS	N=18				5.00 - 5.45 Medium dense.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks

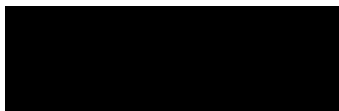
EQUIPMENT: Archway Dart window sampling rig.
 METHOD: Dynamic sampled 0.00m-5.00mbgl.
 CASING: No casing used.
 REMARKS: Groundwater encountered at 4.00mbgl.
 BACKFILL: On completion, the borehole was backfilled with arisings.

Groundwater

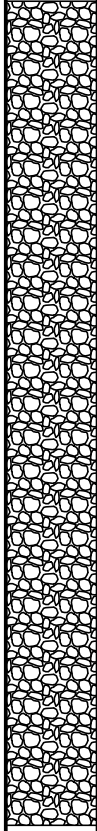
Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
31/07/25	4.00		

All dimensions in metres
Scale 1:50

Logged By
GH



Site Wandleys Lane, Arundel				WS18
Job No CRM.1668.044	Dates Start 31-07-25 Finish 31-07-25	Ground Level (m)	Co-Ordinates	
Client Bellway Homes				Sheet 1 of 1

Well	Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
		Depth (m)	No/Type	Results					
		0.30	ES					Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
		1.00 - 1.45 1.00	SPTLS D	N=15	0.90			Soft to firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint. 1.00 - 1.45 Firm to stiff, medium strength.	1
		2.00 - 2.45 2.00	SPTLS D	N=4	2.00			2.00 - 2.45 Soft, very low strength. Soft pale grey mottled brown slightly sandy CLAY.	2
		3.00 - 3.45 3.00	SPTLS D	N=5	3.00			3.00 - 3.45 Loose. Yellowish brown fine to coarse SAND.	3
		4.00 - 4.45 4.00	SPTLS D	N=12				4.00 - 4.45 Medium dense.	4
		5.00 - 5.45 5.00	SPTLS D	N=37	5.45			5.00 - 5.45 Dense.	5
					{8.00}			Borehole completed at 5.45m.	6
									7
									8

General Remarks

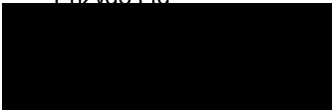
EQUIPMENT: Archway Dart window sampling rig.
 METHOD: Dynamic sampled 0.00m-5.00mbgl.
 CASING: No casing used.
 REMARKS: Groundwater encountered at 4.00mbgl.
 BACKFILL: On completion, the borehole was backfilled with arisings.

Groundwater

Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
31/07/25	4.00		

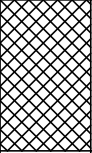
All dimensions in metres
Scale 1:50

Logged By
GH



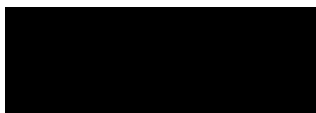
Site Wandleys Lane, Arundel				HP1
Job No CRM.1668.044	Dates Start 01-08-25 Finish 01-08-25	Ground Level (m)	Co-Ordinates	

Client Bellway Homes	Sheet 1 of 1
-------------------------	-----------------

Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
	Depth (m)	No/Type	Results					
	0.50	B		0.50			MADE GROUND: Brown slightly silty fine SAND with frequent part-decomposed plant remains.	0
							Trial Pit completed at 0.50m.	1
								2
								3
				{4.00}				4

General Remarks Dimensions: xx0.50 1. Hand excavated pit from ground level to 0.50mbgl. 2. Trial pit sides remained vertical and stable. 3. Groundwater not encountered. 4. On completion, the trial pit was backfilled with arisings.			
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All dimensions in metres Scale 1:25	Logged By GH
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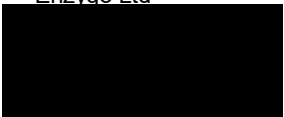
Site Wandleys Lane, Arundel				HP2
Job No CRM.1668.044	Dates Start 01-08-25 Finish 01-08-25	Ground Level (m)	Co-Ordinates	

Client Bellway Homes	Sheet 1 of 1
-------------------------	-----------------

Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
	Depth (m)	No/Type	Results					
	0.50	B		0.30			Grass over brown slightly clayey very gravelly fine to coarse SAND. Gravel is angular and subangular fine to coarse of flint.	0
				0.50			Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint.	
							Trial Pit completed at 0.50m.	
								1
								2
								3
								4

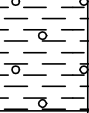
General Remarks Dimensions: xx0.50 1. Hand excavated pit from ground level to 0.50mbgl. 2. Trial pit sides remained vertical and stable. 3. Groundwater not encountered. 4. On completion, the trial pit was backfilled with arisings.			
--	--	--	--

All dimensions in metres Scale 1:25	Logged By GH
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Site Wandleys Lane, Arundel				HP3
Job No CRM.1668.044	Dates Start 01-08-25 Finish 01-08-25	Ground Level (m)	Co-Ordinates	

Client Bellway Homes	Sheet 1 of 1
-------------------------	-----------------

Water Levels	Samples & In Situ Testing			Depth (m)	Level (mAD)	Legend	Stratum Description	
	Depth (m)	No/Type	Results					
	0.10			0.10			MADE GROUND: Loose angular and subangular fine to coarse limestone GRAVEL.	0
	0.50	B		0.50			Firm brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse of flint.	
							Trial Pit completed at 0.50m.	
								1
								2
								3
								4

General Remarks Dimensions: xx0.50 1. Hand excavated pit from ground level to 0.50mbgl. 2. Trial pit sides remained vertical and stable. 3. Groundwater not encountered. 4. On completion, the trial pit was backfilled with arisings.			
---	--	--	--

All dimensions in metres Scale 1:25	Logged By GH
--	-----------------

Appendix 3 – Geotechnical Laboratory Test Results

TEST CERTIFICATE

DETERMINATION OF PLASTIC LIMIT

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 31/07/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

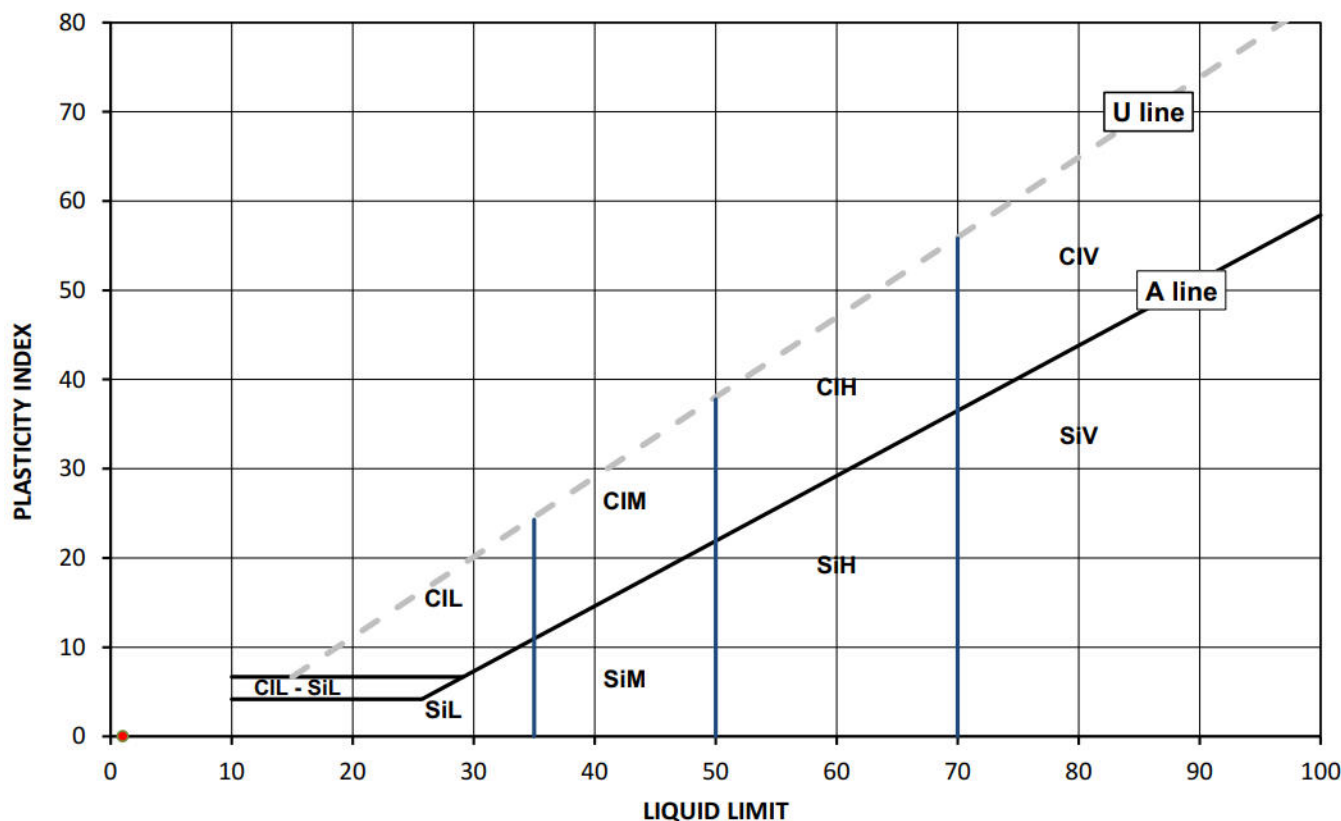
Test Results:

Laboratory Reference: 662534
 Hole No.: WS11
 Sample Reference: Not Given
 Sample Description: Brown clayey GRAVEL

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm;
 Cone Type: N/A

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
8.8	N/A	N/A	27	N/A	23



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation

Katarzyna Koziel
 Geotechnical Reporting Team Leader
 for and on behalf of i2 Analytical Ltd

Date Reported: 01/10/2025

GF 494.4



TEST CERTIFICATE

DETERMINATION OF PLASTIC LIMIT

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022



4041

Client: [REDACTED]

Client Address: [REDACTED]

Contact: [REDACTED]

Site Address: [REDACTED]

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: [REDACTED]

Job Number: 25-046005-2

Date Sampled: 31/07/2025

Date Received: 11/08/2025

Date Tested: [REDACTED]

Sampled By: [REDACTED]

Test Results:

Laboratory Reference: [REDACTED]

Hole No.: [REDACTED]

Sample Reference: [REDACTED]

Sample Description: [REDACTED]

Depth Top [m]: [REDACTED]

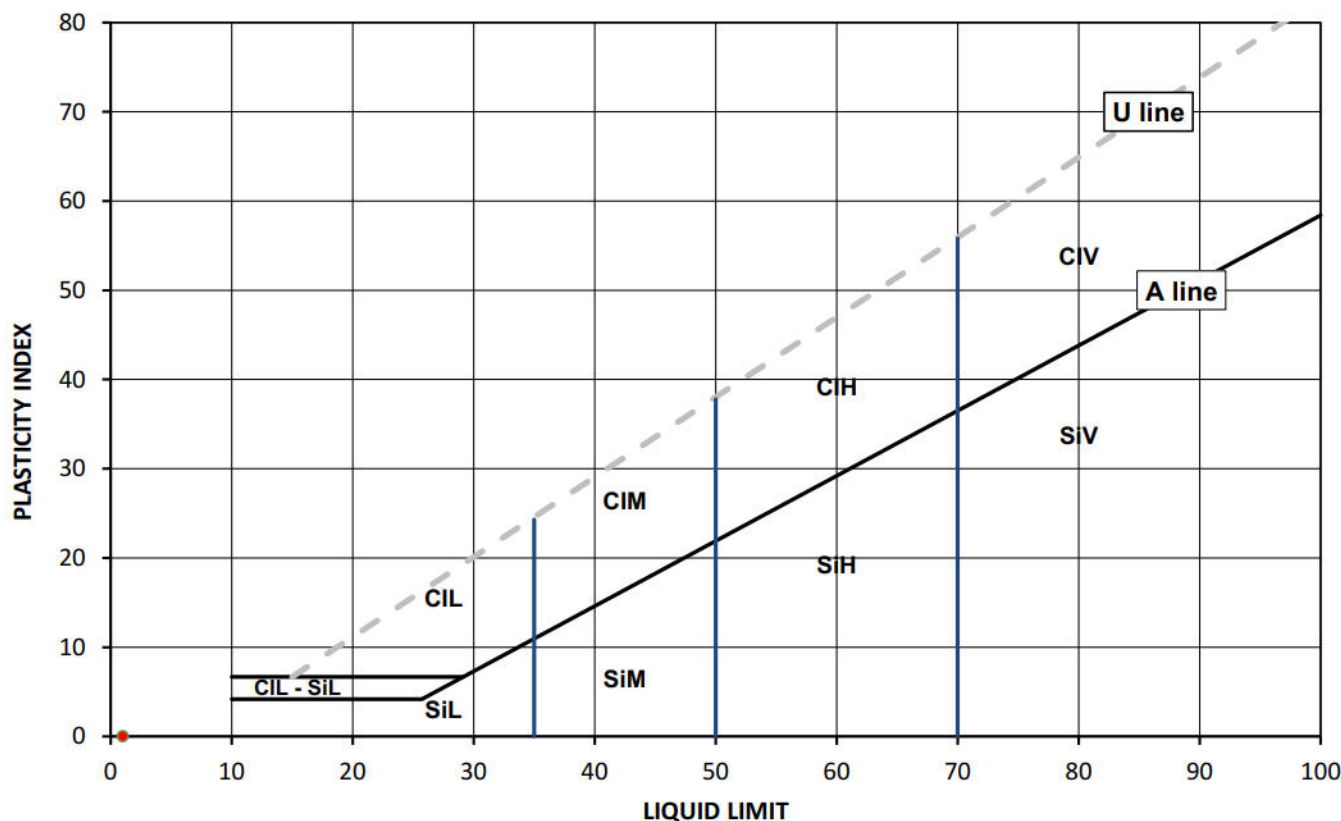
Depth Base [m]: [REDACTED]

Sample Type: [REDACTED]

Sample Preparation: [REDACTED]

Cone Type: [REDACTED]

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
10.3	N/A	N/A	37	N/A	[REDACTED]



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity	Liquid Limit
Cl	Clay	L Low	below 35
Si	Silt	M Medium	35 to 50
		H High	50 to 70
		V Very high	exceeding 70
		O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014+A1:2022, BS 1377-2:2022; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Remarks: [REDACTED]

[REDACTED] S [REDACTED]
[REDACTED] Katarzyna Koziel
[REDACTED] Geotechnical Reporting Team Leader
[REDACTED]

Date Reported: 01/10/2025

GF 494.4

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 31/07/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

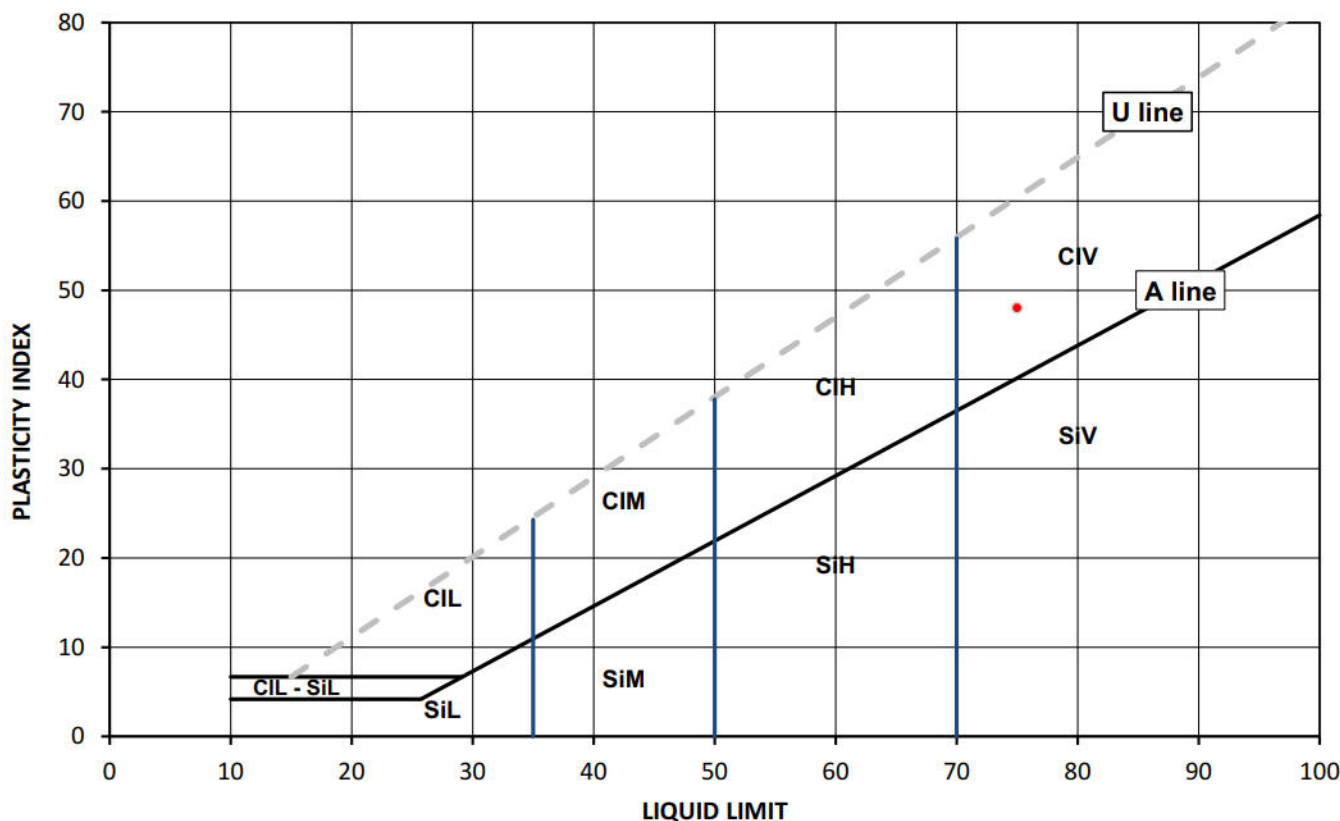
Test Results:

Laboratory Reference: 662518
 Hole No.: WS1
 Sample Reference: Not Given
 Sample Description: Brown very gravelly CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
15.0	75	27	48	-0.25	1.25	43



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

Katarzyna Koziel
 Geotechnical Reporting Team Leader
 for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 01/08/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

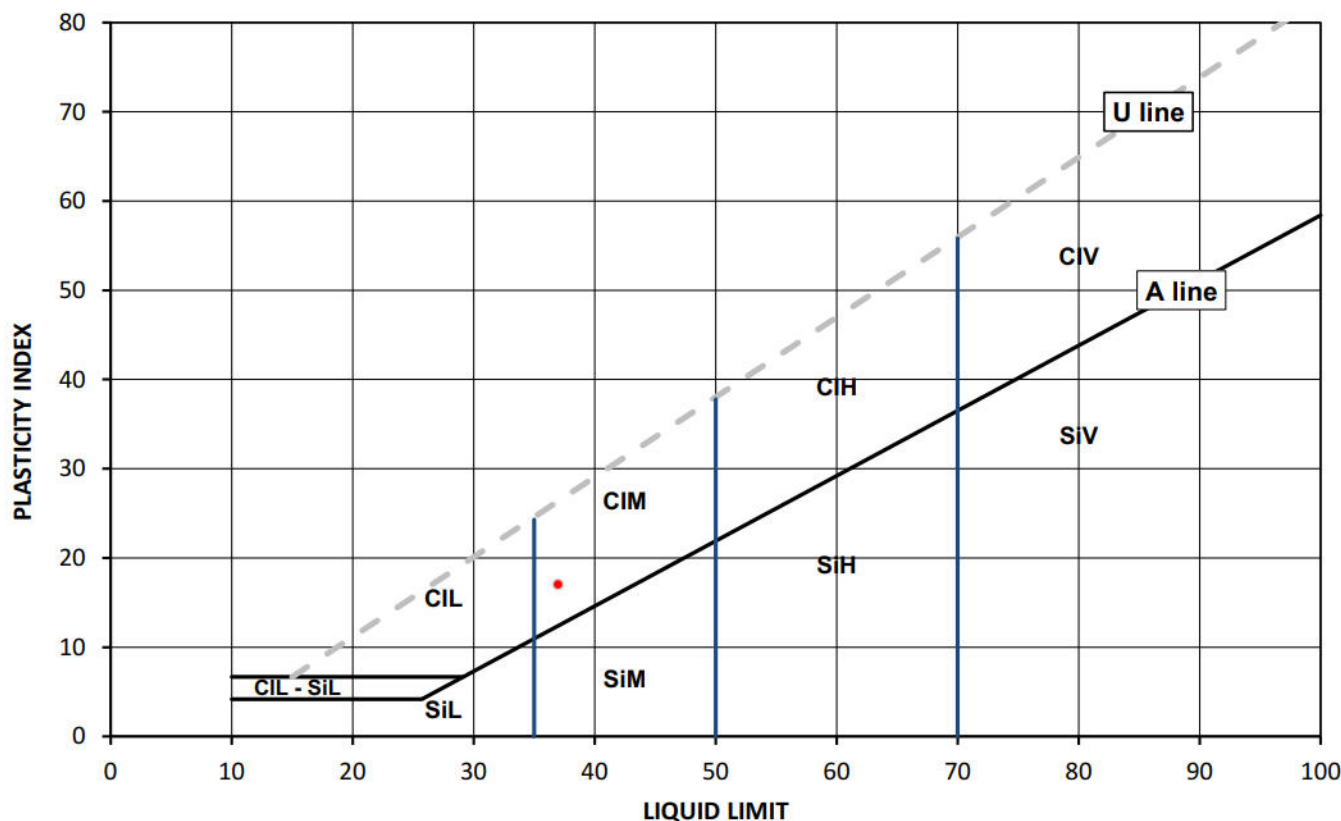
Test Results:

Laboratory Reference: 662519
 Hole No.: WS2
 Sample Reference: Not Given
 Sample Description: Brown very gravelly sandy CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
12.7	37	20	17	-0.41	1.41	45



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 01/08/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

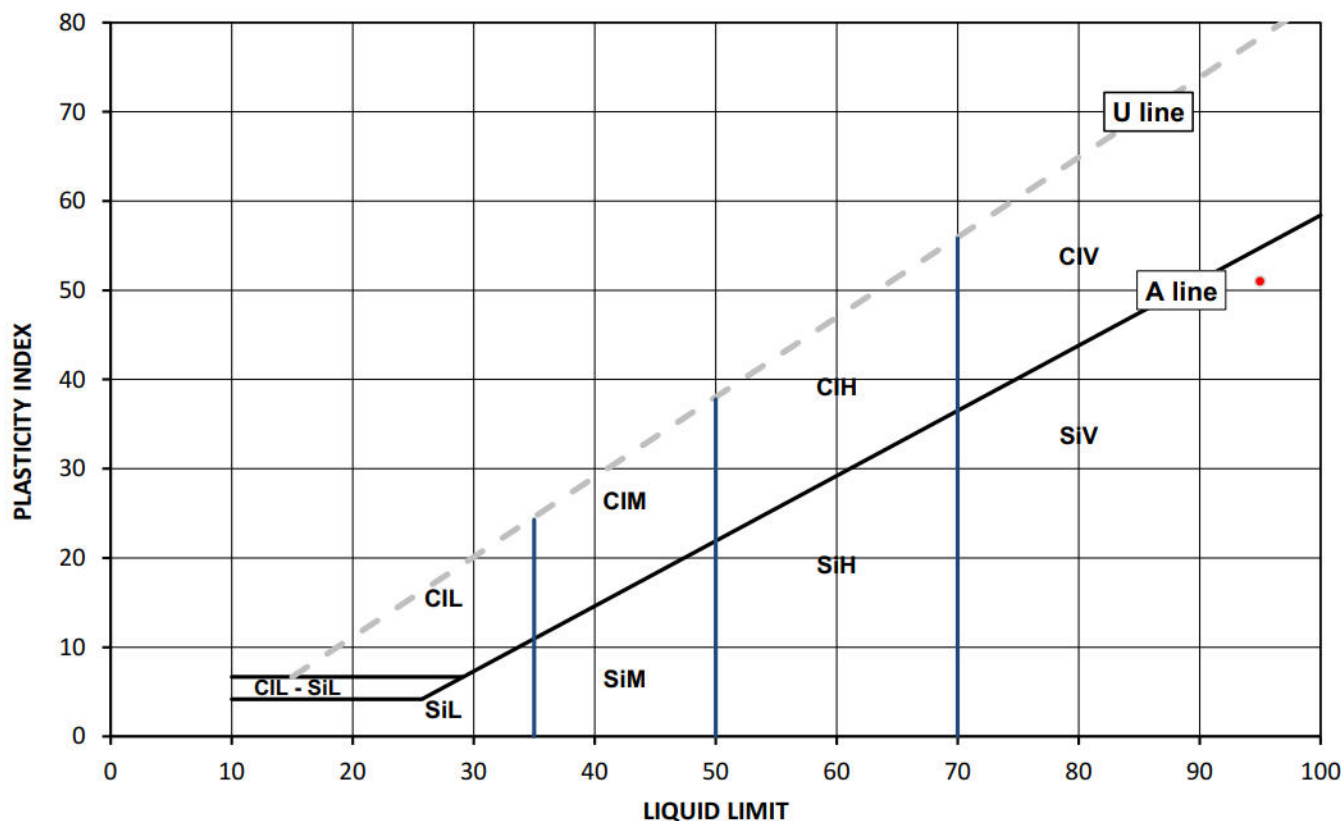
Test Results:

Laboratory Reference: 662520
 Hole No.: WS2
 Sample Reference: Not Given
 Sample Description: Brown gravelly clayey SILT

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
13.4	95	44	51	-0.61	1.61	60



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

Katarzyna Koziel
 Geotechnical Reporting Team Leader
 for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 01/08/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

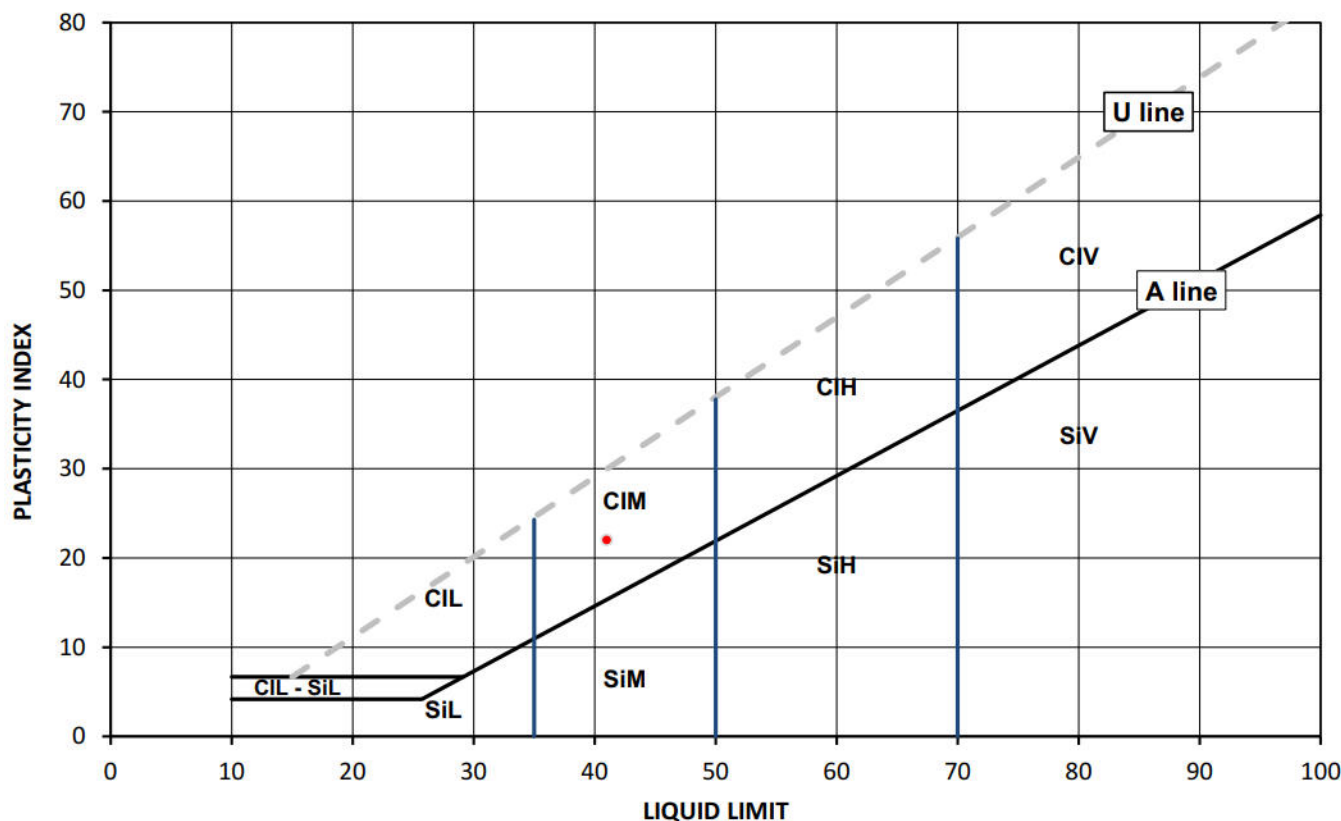
Test Results:

Laboratory Reference: 662521
 Hole No.: WS2
 Sample Reference: Not Given
 Sample Description: Light brown gravelly sandy CLAY

Depth Top [m]: 3.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
17.0	41	19	22	-0.09	1.09	56



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

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Katarzyna Koziel
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 for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 30/07/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

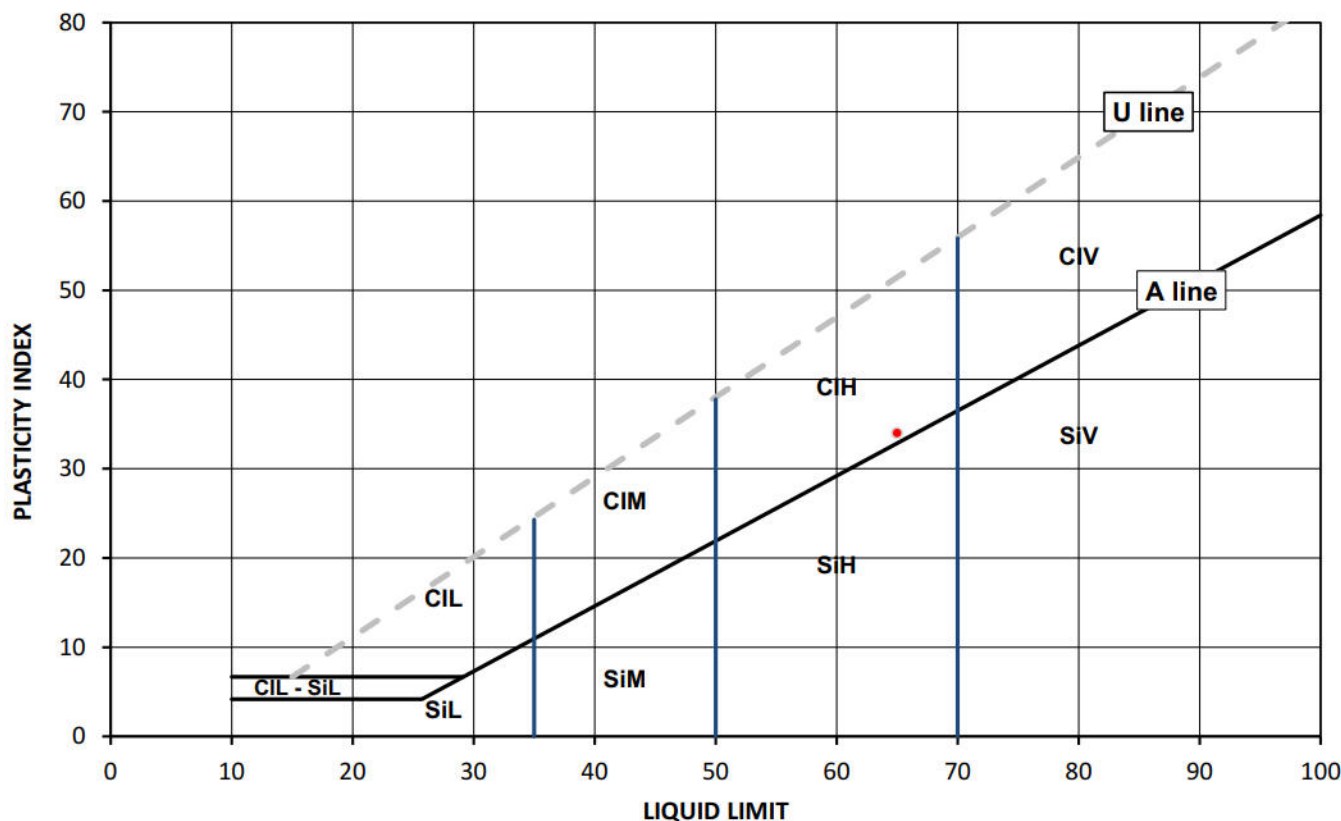
Test Results:

Laboratory Reference: 662522
 Hole No.: WS3
 Sample Reference: Not Given
 Sample Description: Brown gravelly silty CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
9.9	65	31	34	-0.62	1.62	41



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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 Sampled By: Not Given

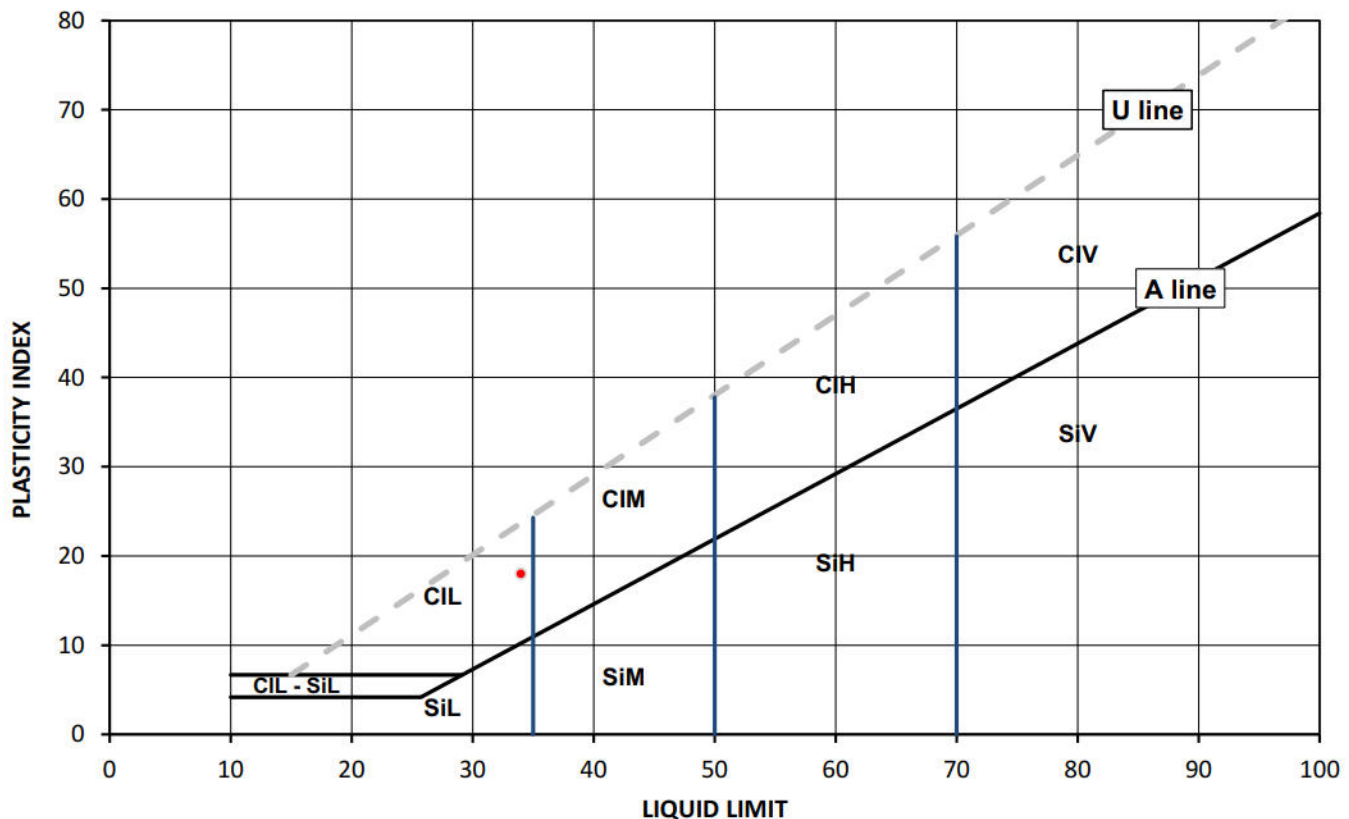
Test Results:

Laboratory Reference: 662523
 Hole No.: WS3
 Sample Reference: Not Given
 Sample Description: Light brown slightly gravelly very sandy CLAY

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
24.0	34	16	18	0.44	0.56	95



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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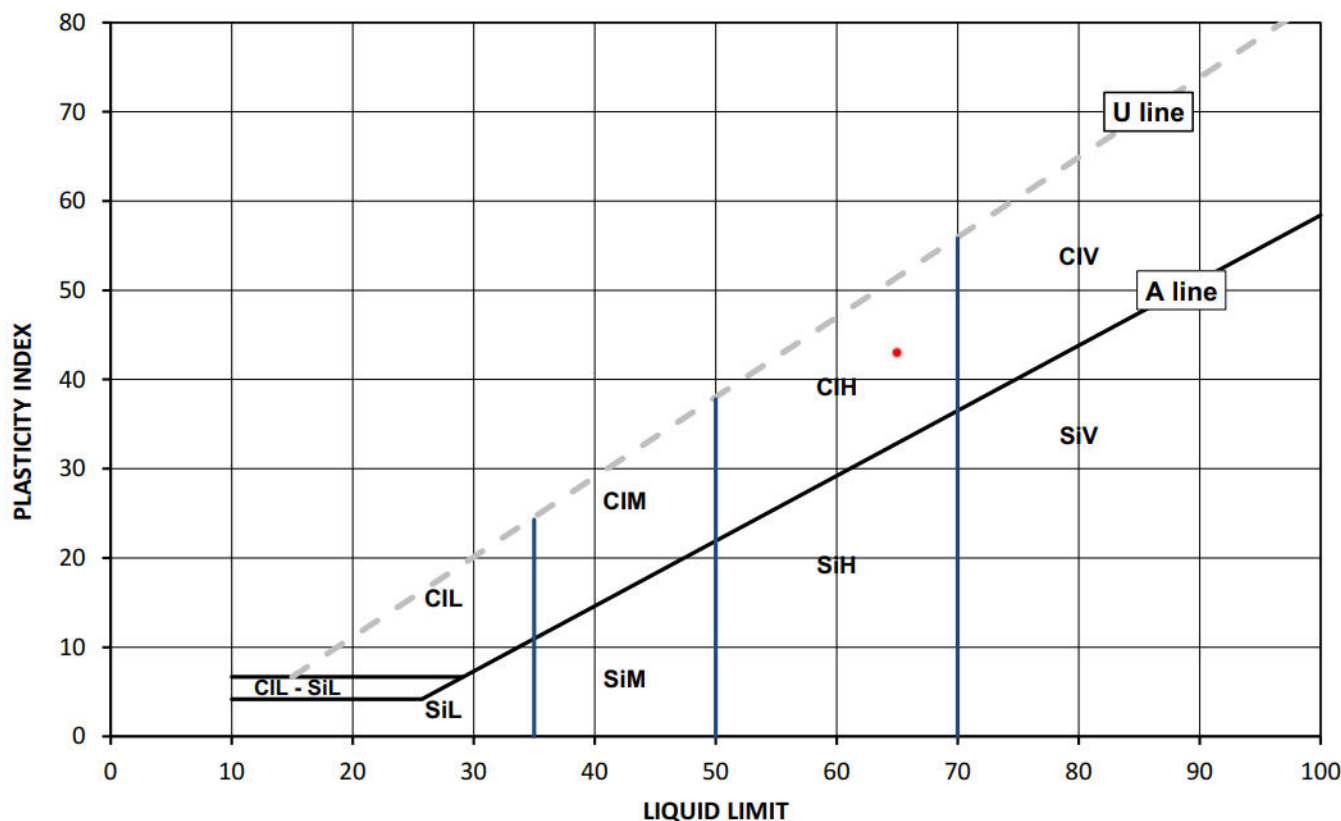
Test Results:

Laboratory Reference: 662524
 Hole No.: WS4
 Sample Reference: Not Given
 Sample Description: Light brownish grey CLAY

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
21.6	65	22	43	0.00	1.00	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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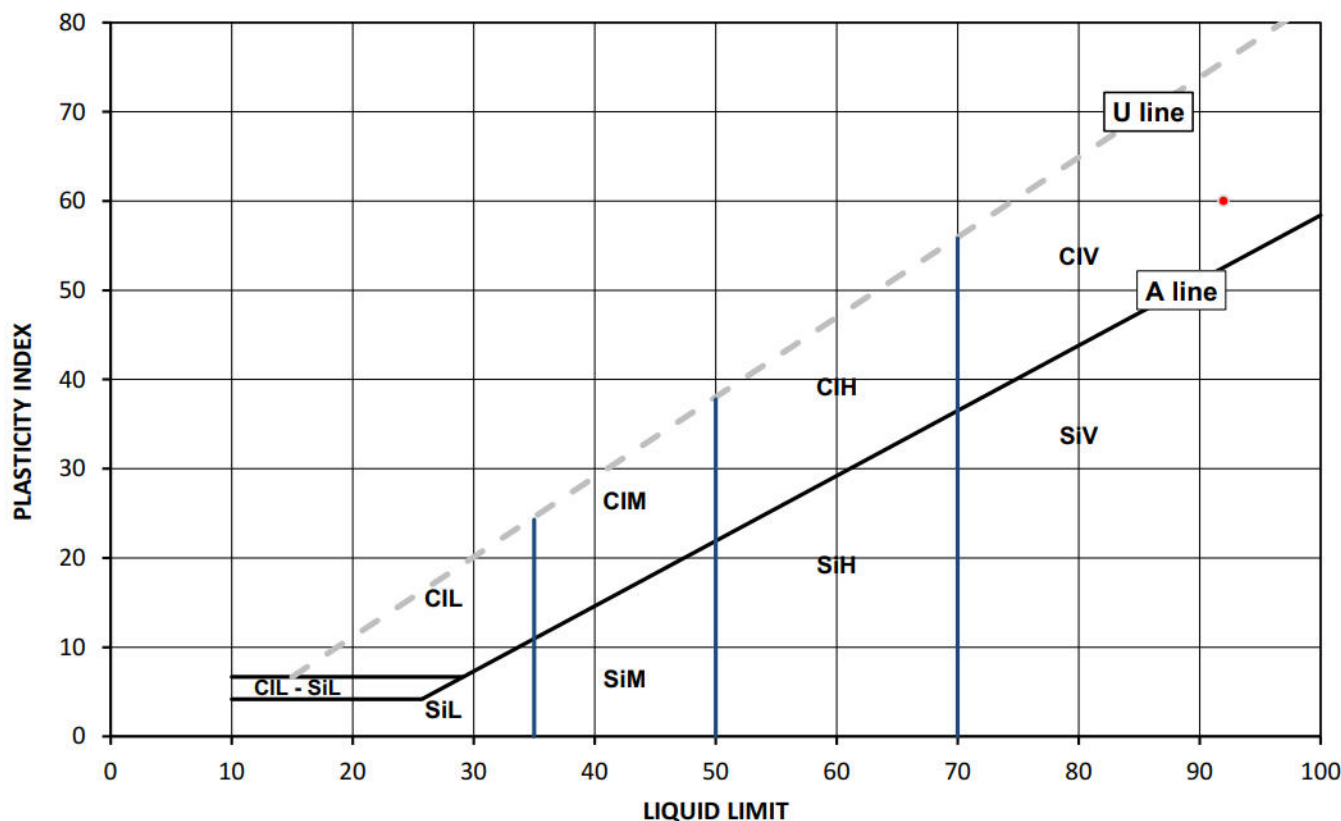
Test Results:

Laboratory Reference: 662525
 Hole No.: WS5
 Sample Reference: Not Given
 Sample Description: Brown gravelly CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
7.2	92	32	60	-0.42	1.42	59



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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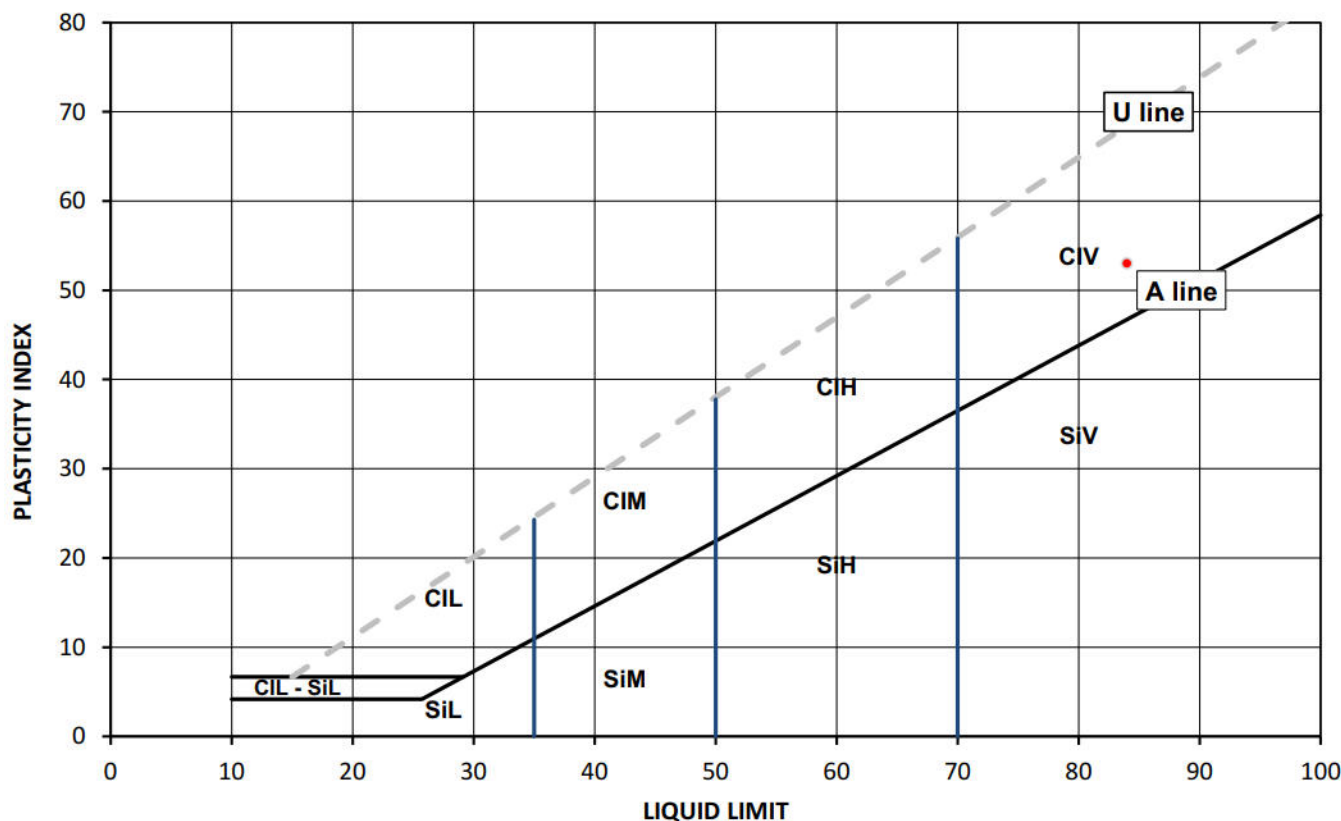
Test Results:

Laboratory Reference: 662526
 Hole No.: WS8
 Sample Reference: Not Given
 Sample Description: Brown clayey GRAVEL

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
16.2	84	31	53	-0.28	1.28	27



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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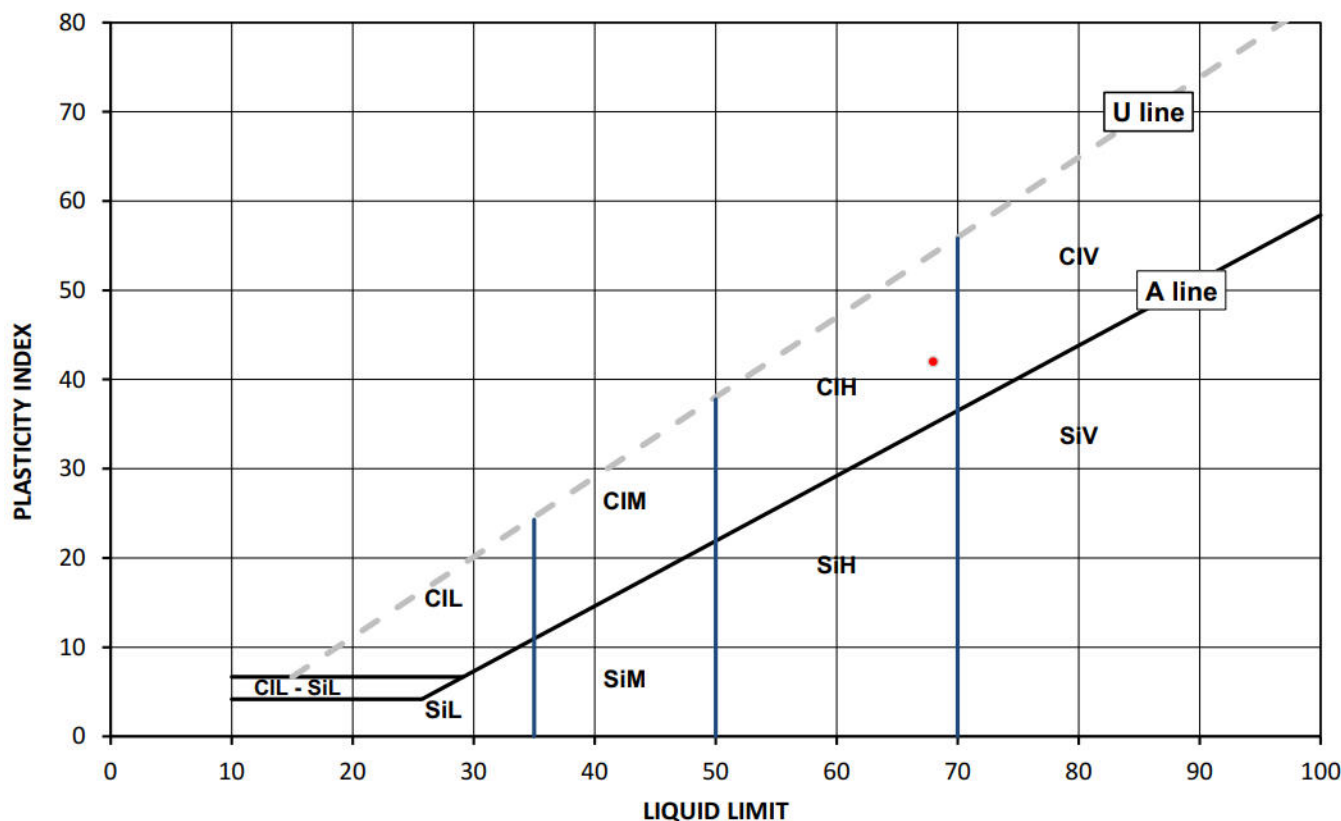
Test Results:

Laboratory Reference: 662527
 Hole No.: WS6
 Sample Reference: Not Given
 Sample Description: Brown very gravelly CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
12.4	68	26	42	-0.33	1.33	45



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

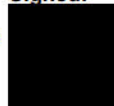
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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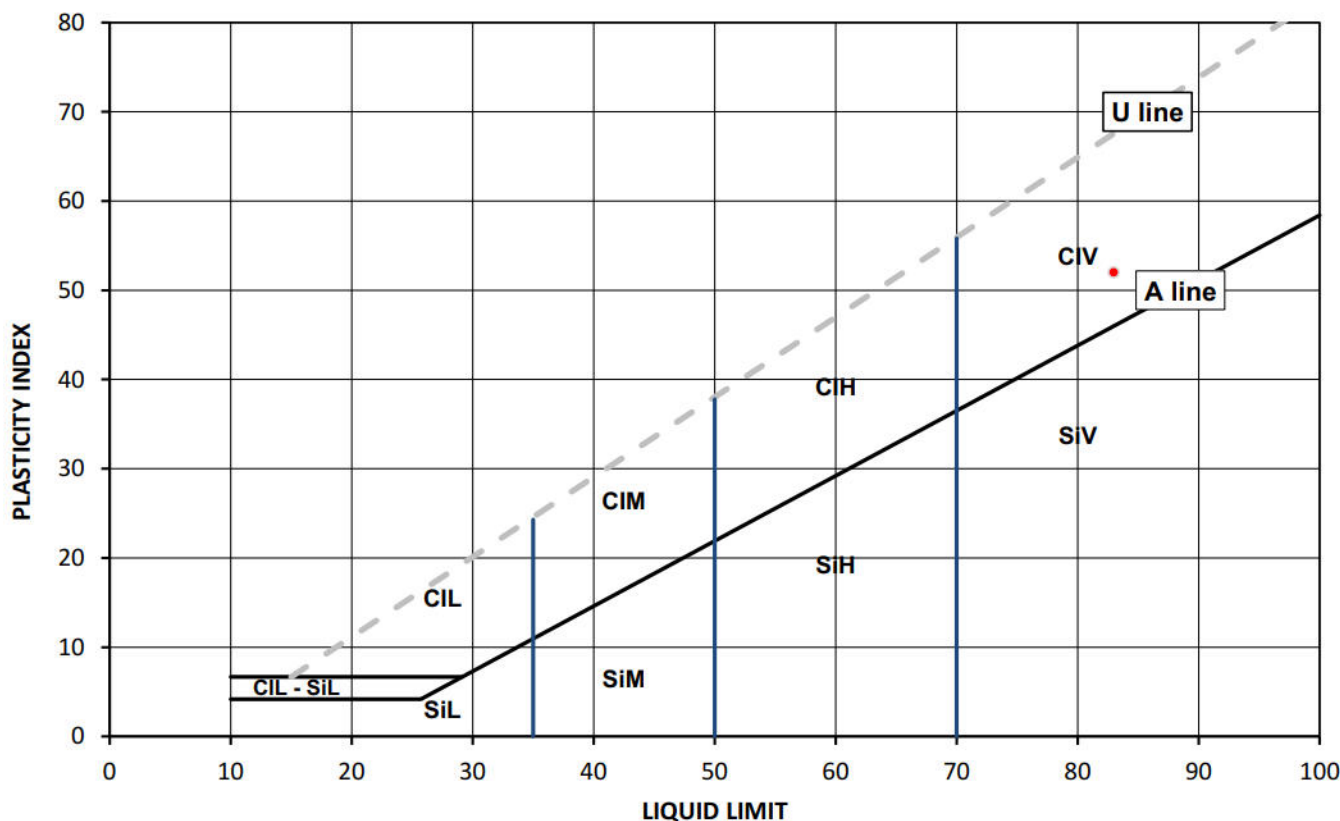
Test Results:

Laboratory Reference: 662528
 Hole No.: WS6
 Sample Reference: Not Given
 Sample Description: Brown very gravelly CLAY

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
6.9	83	31	52	-0.46	1.46	35



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

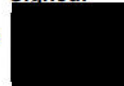
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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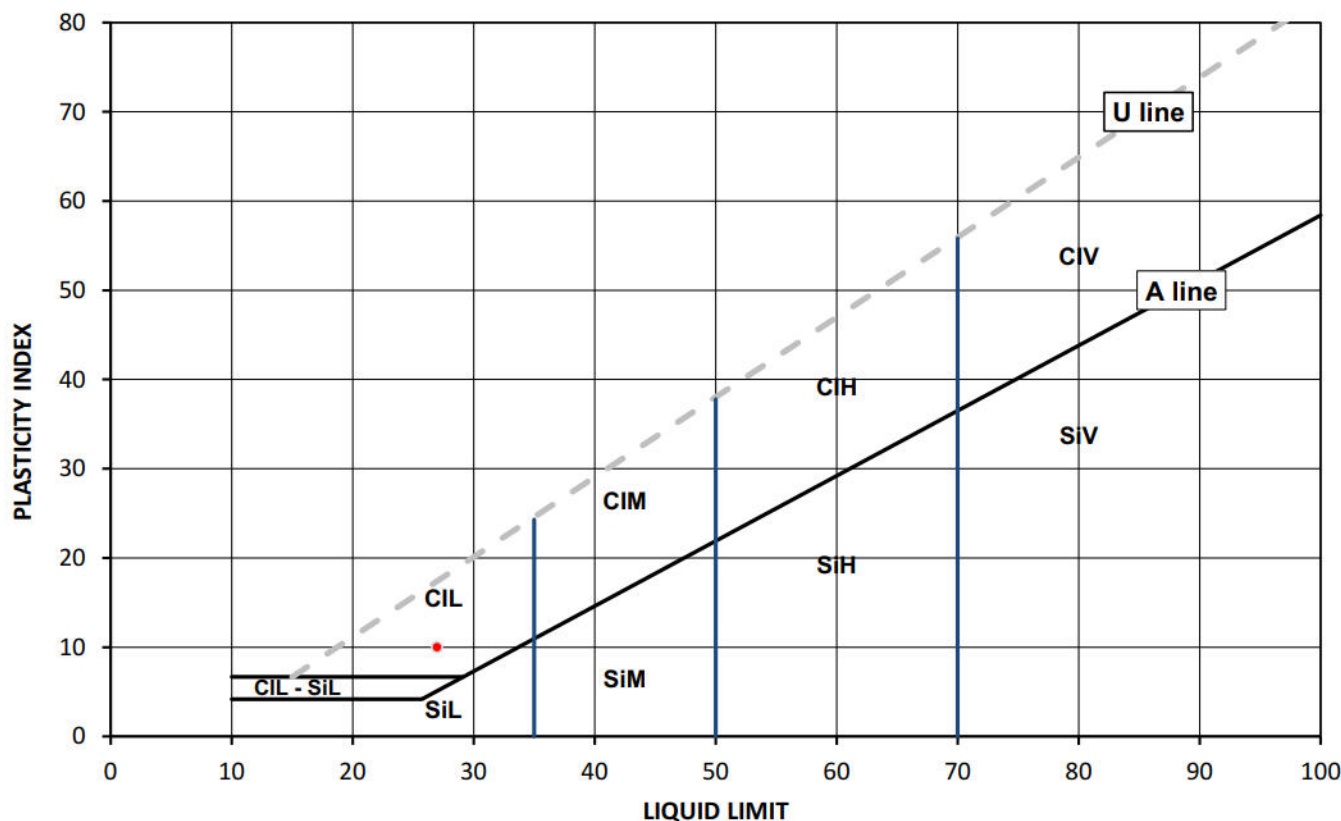
Test Results:

Laboratory Reference: 662529
 Hole No.: WS7
 Sample Reference: Not Given
 Sample Description: White clayey CHALK

Depth Top [m]: 3.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
14.4	27	17	10	-0.30	1.30	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

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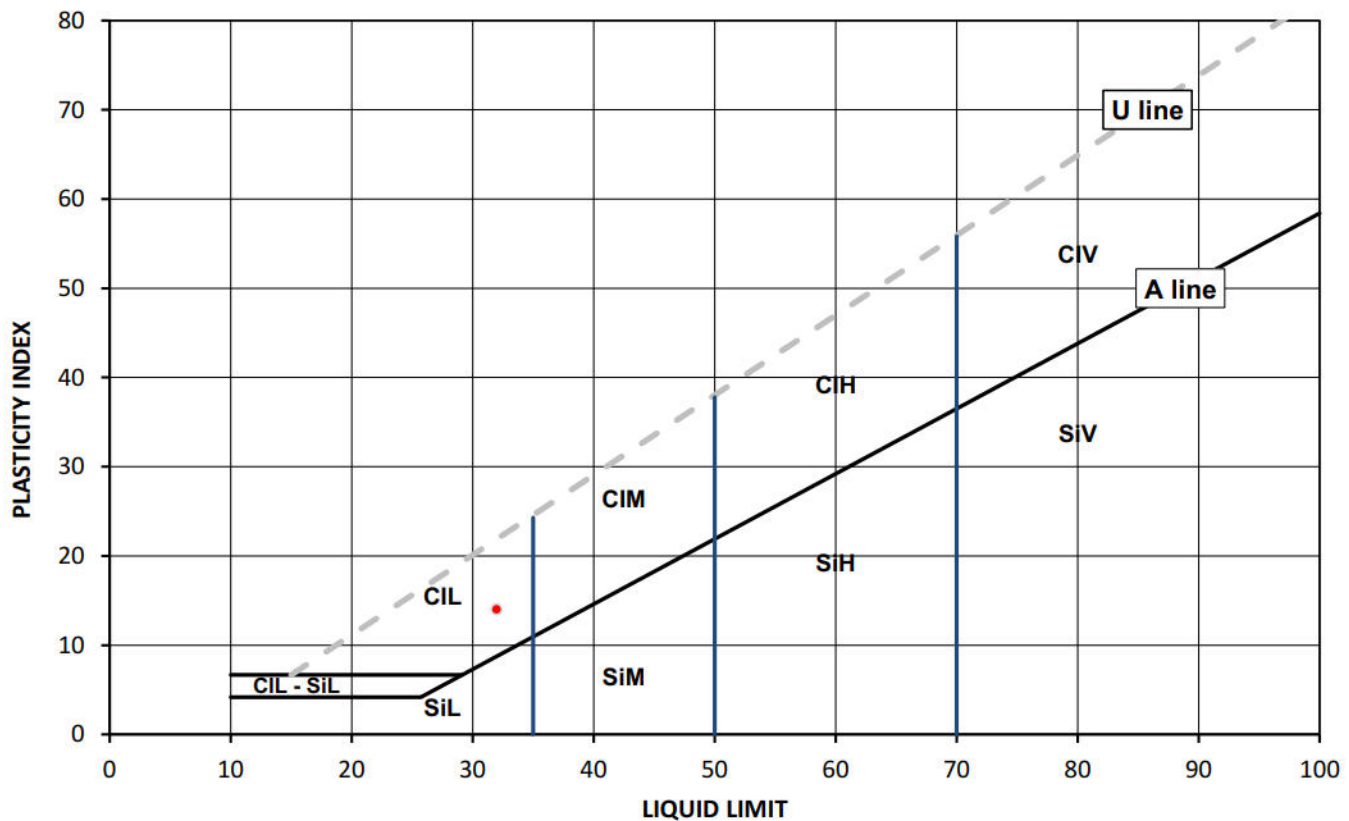
Test Results:

Laboratory Reference: 662530
 Hole No.: WS8
 Sample Reference: Not Given
 Sample Description: Brown very gravelly very sandy CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
4.1	32	18	14	-1.00	2.00	33



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

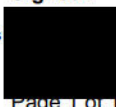
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

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 Sampled By: Not Given

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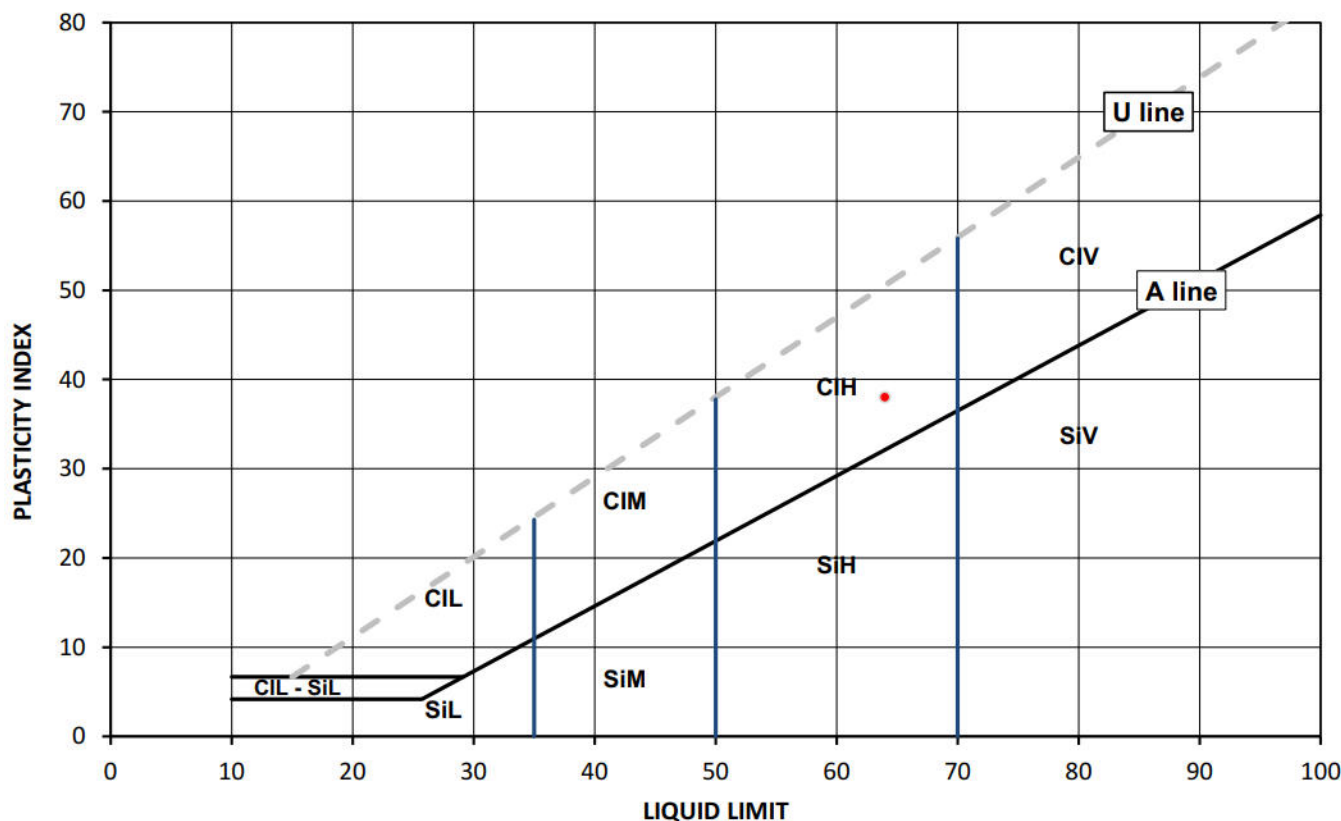
Test Results:

Laboratory Reference: 662531
 Hole No.: WS9
 Sample Reference: Not Given
 Sample Description: Brown slightly gravelly CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
20.5	64	26	38	-0.13	1.13	69



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

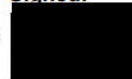
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

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Signed:



Katarzyna Koziel
 Geotechnical Reporting Team Leader
 for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 30/07/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

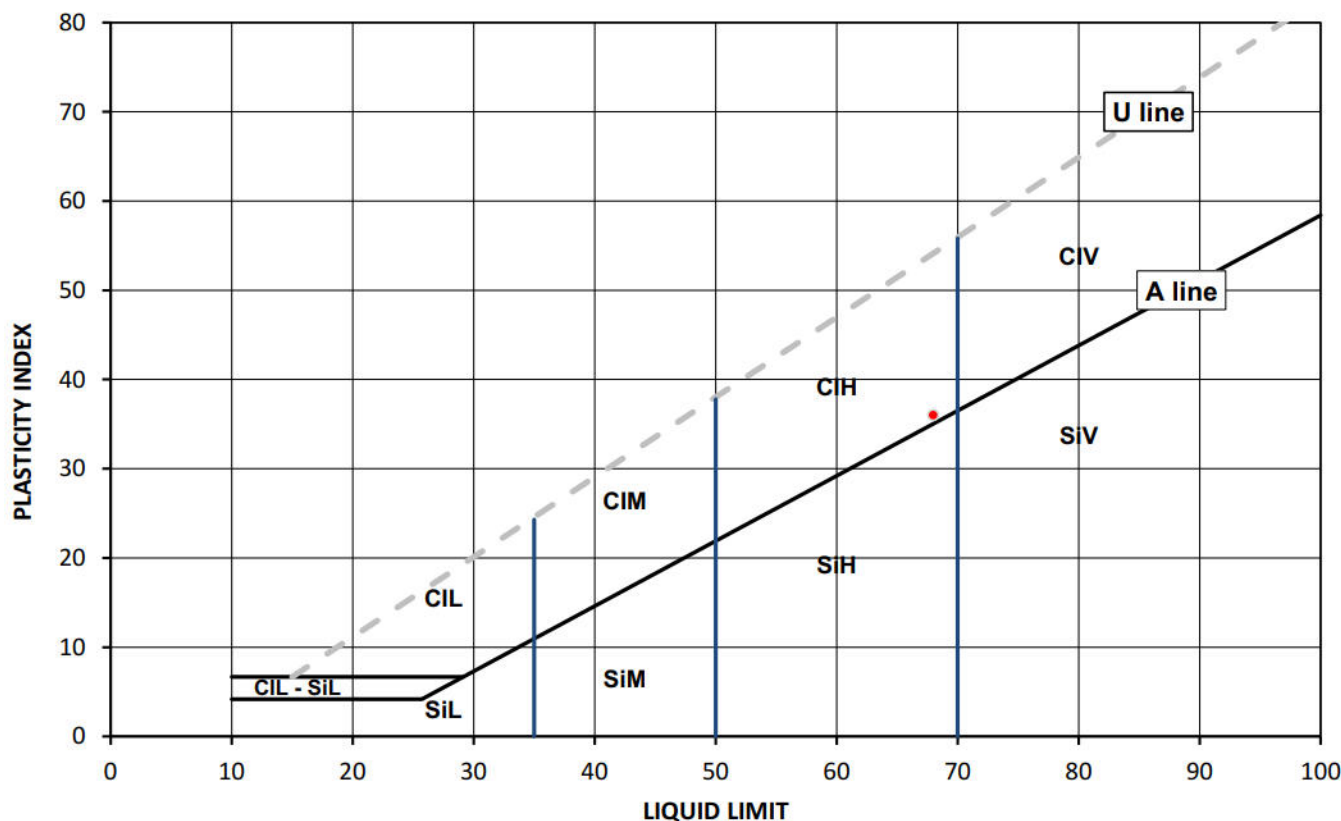
Test Results:

Laboratory Reference: 662532
 Hole No.: WS10
 Sample Reference: Not Given
 Sample Description: Brown slightly gravelly silty CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
21.7	68	32	36	-0.28	1.28	74



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	append to classification for organic material (eg CIHO)
	V Very high	
	O Organic	

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

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Date Reported: 01/10/2025

GF 337.16

TEST CERTIFICATE

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 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

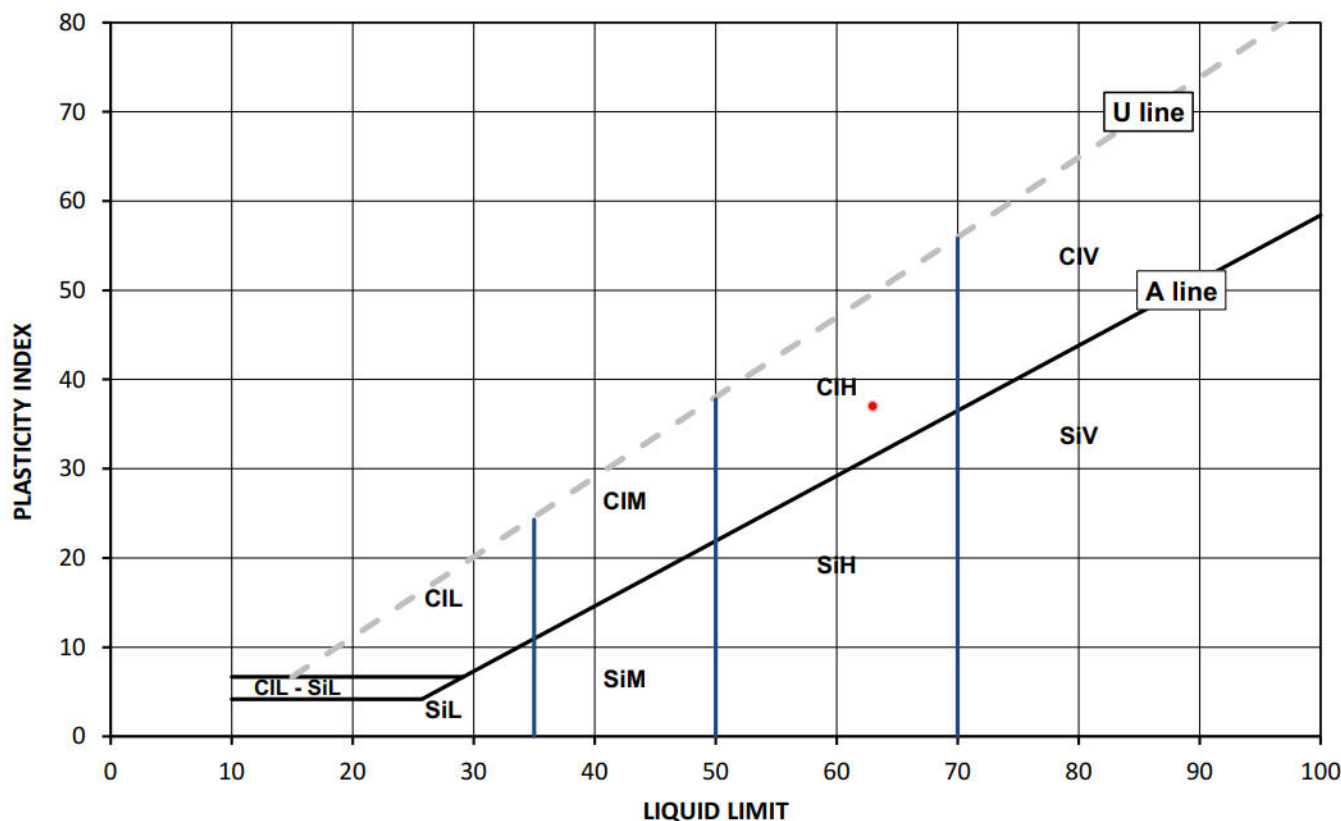
Test Results:

Laboratory Reference: 662533
 Hole No.: WS10
 Sample Reference: Not Given
 Sample Description: Light brown CLAY with fragments of chalk

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
22.8	63	26	37	-0.08	1.08	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	L Low below 35
Si	Silt	M Medium 35 to 50
		H High 50 to 70
		V Very high exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

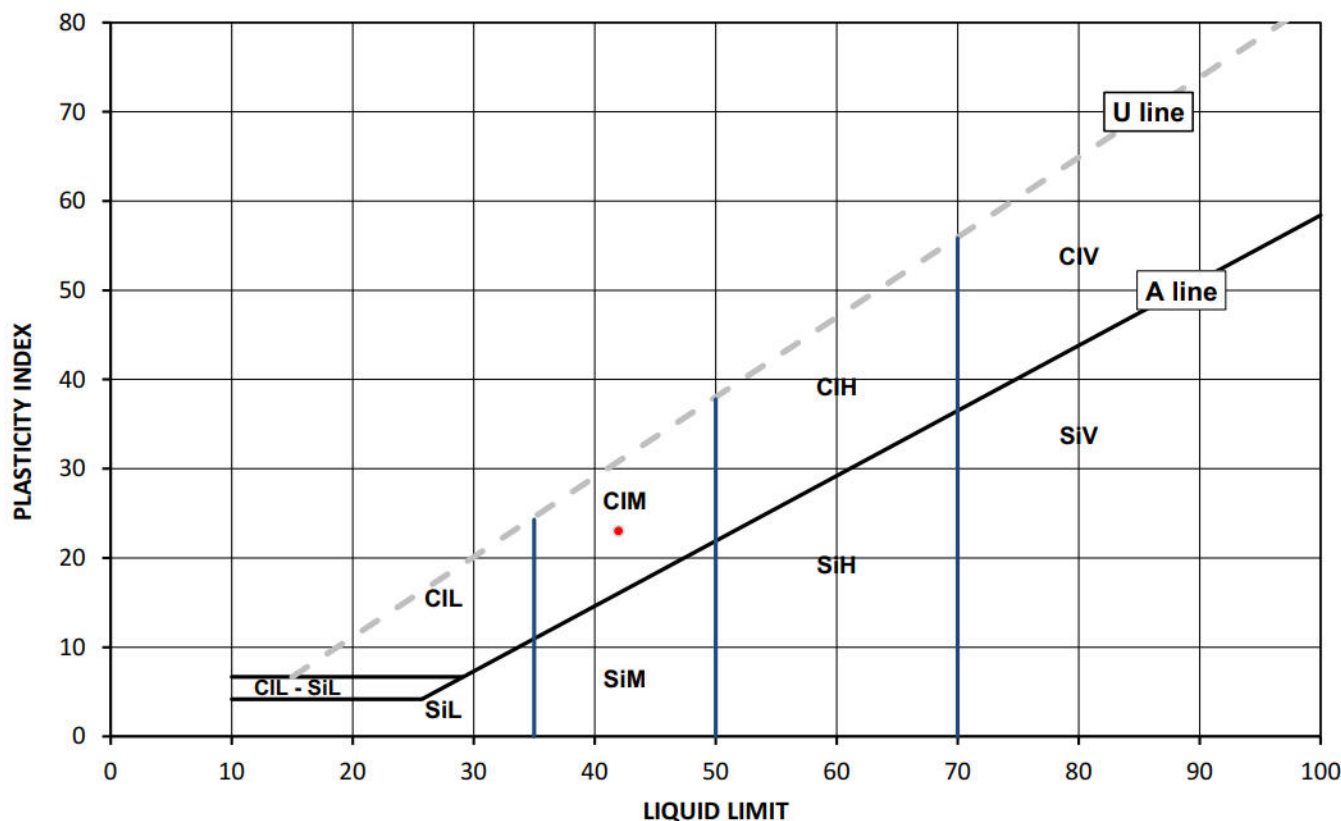
Test Results:

Laboratory Reference: 662535
 Hole No.: WS11
 Sample Reference: Not Given
 Sample Description: Light brown slightly gravelly sandy CLAY

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
25.2	42	19	23	0.26	0.74	86



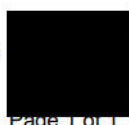
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

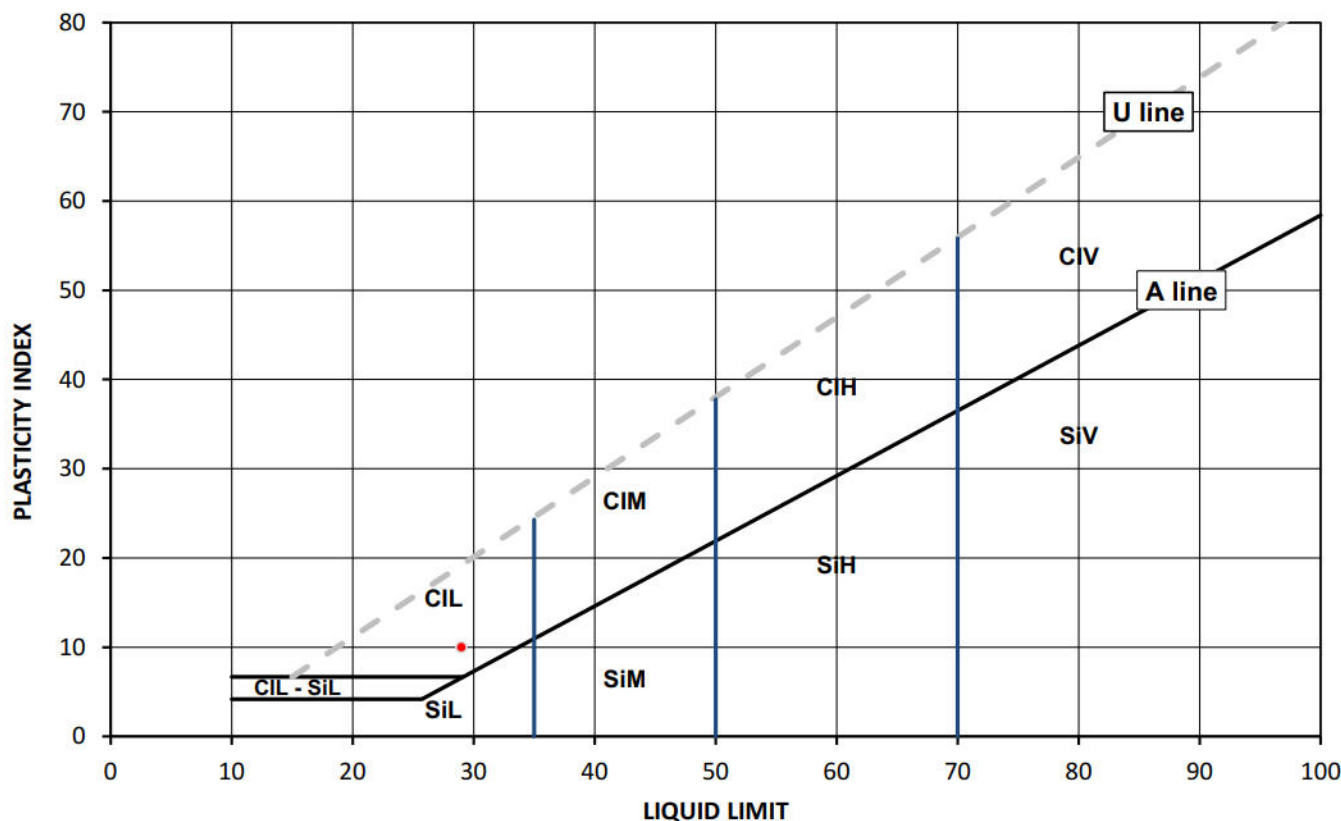
Test Results:

Laboratory Reference: 662536
 Hole No.: WS12
 Sample Reference: Not Given
 Sample Description: Cream colour slightly gravelly clayey CHALK

Depth Top [m]: 3.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
19.5	29	19	10	0.10	0.90	66



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	append to classification for organic material (eg CIHO)
	V Very high	
	O Organic	

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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Date Reported: 01/10/2025

GF 337.16

TEST CERTIFICATE

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Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 31/07/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

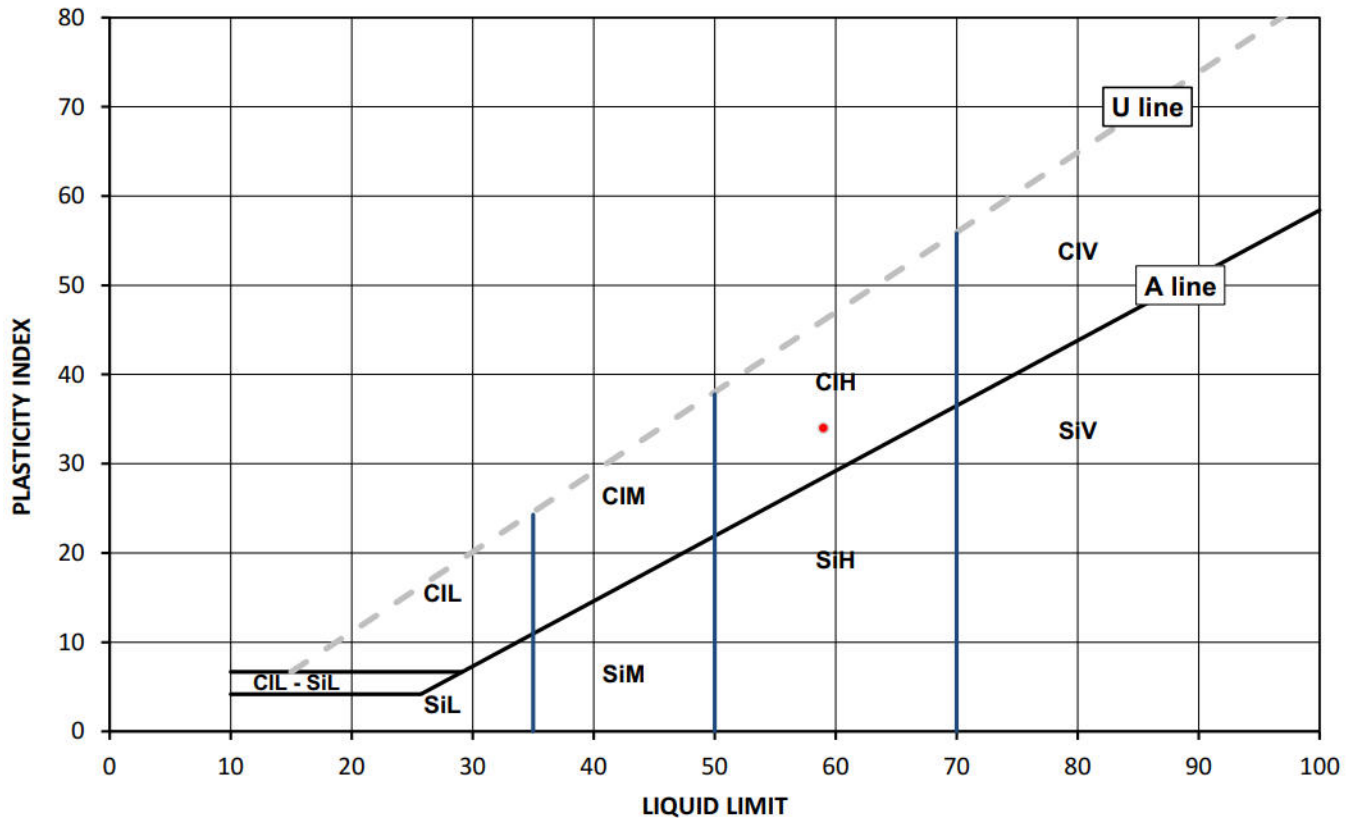
Test Results:

Laboratory Reference: 662537
 Hole No.: WS13
 Sample Reference: Not Given
 Sample Description: Brown gravelly slightly sandy CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
17.3	59	25	34	-0.24	1.24	65



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
		50 to 70
		exceeding 70
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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 Sampled By: Not Given

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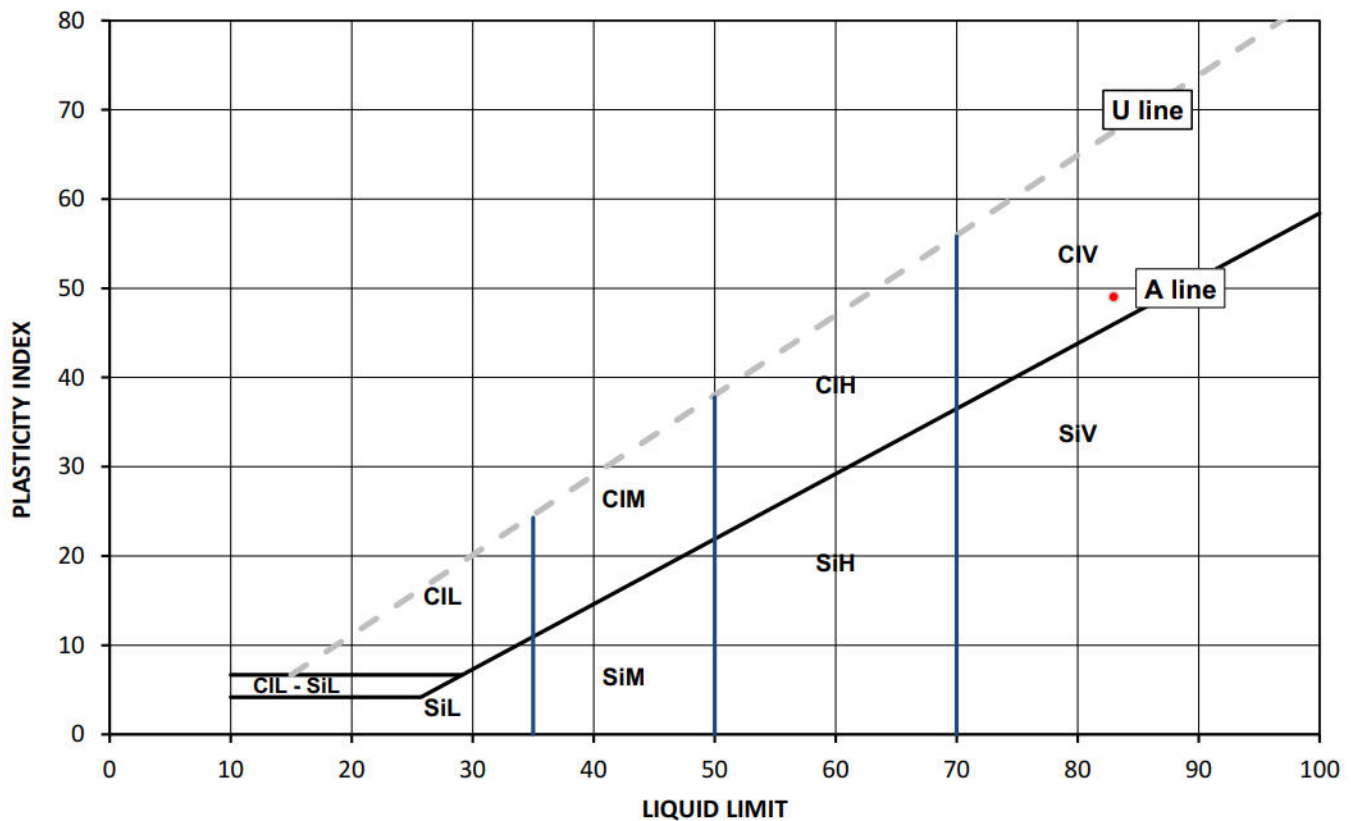
Test Results:

Laboratory Reference: 662538
 Hole No.: WS13
 Sample Reference: Not Given
 Sample Description: Brown very gravelly CLAY

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
16.5	83	34	49	-0.35	1.35	27



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

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 Date Sampled: 31/07/2025
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 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

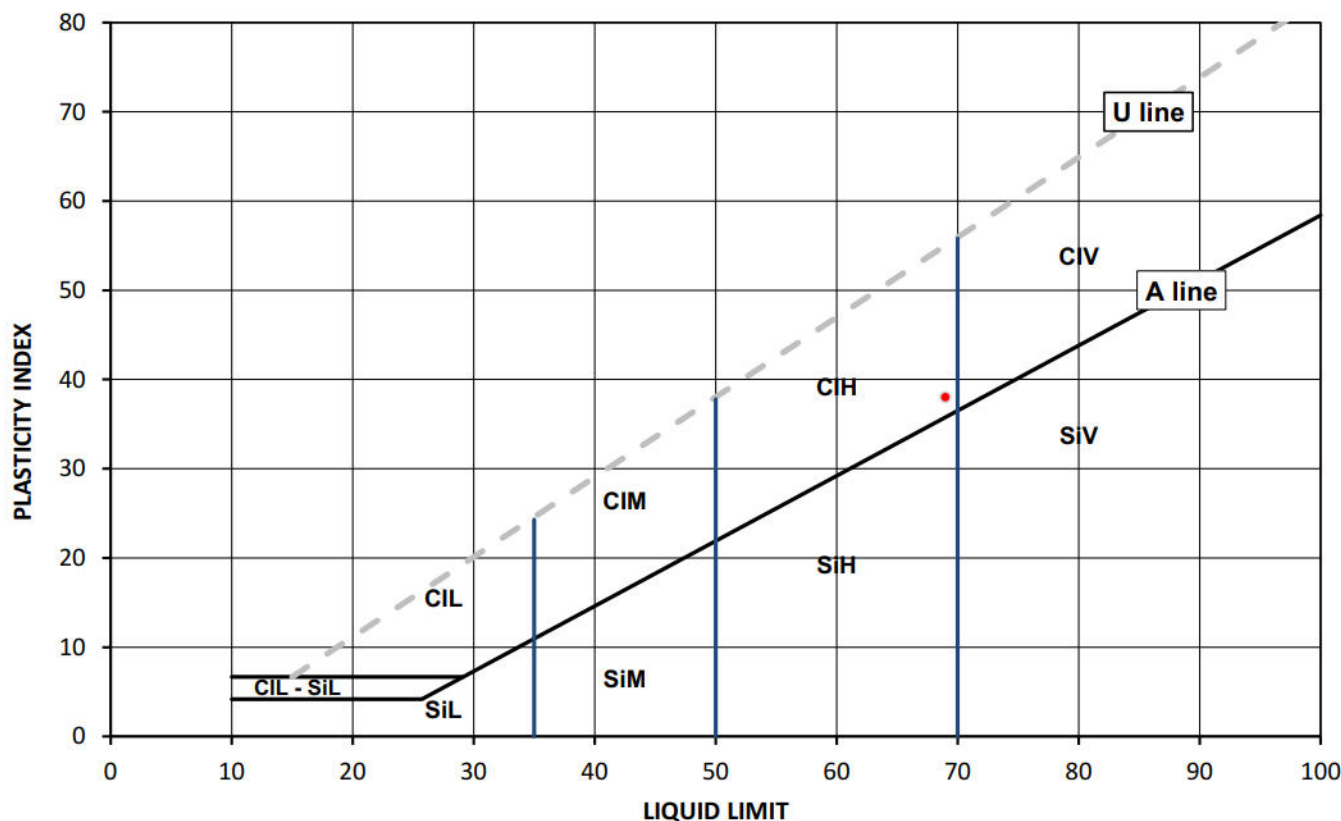
Test Results:

Laboratory Reference: 662539
 Hole No.: WS14
 Sample Reference: Not Given
 Sample Description: Brown gravelly CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
16.4	69	31	38	-0.39	1.39	48



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

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Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

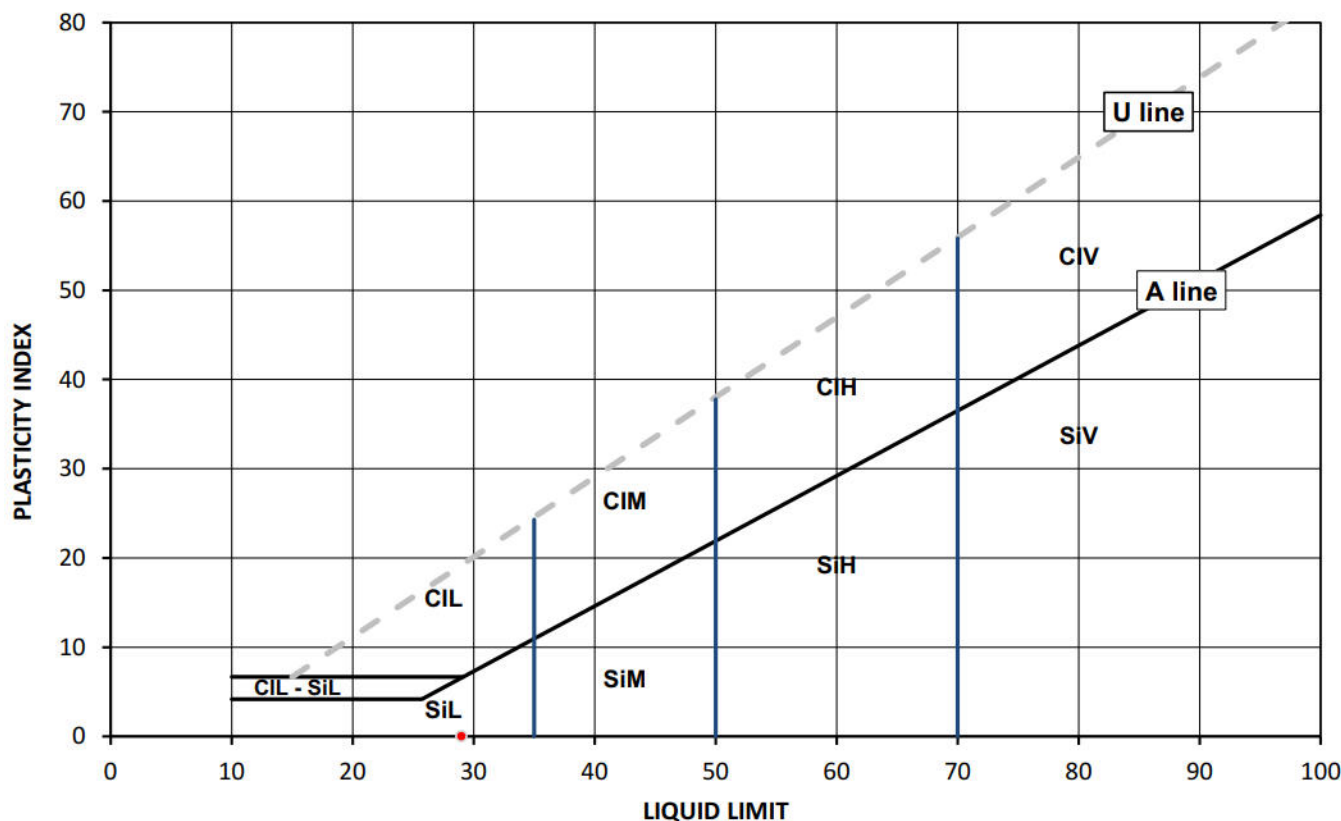
Test Results:

Laboratory Reference: 662540
 Hole No.: WS14
 Sample Reference: Not Given
 Sample Description: Brown clayey SAND

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
21.7	29	NP	NP	N/A	N/A	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks: NP - non plastic.

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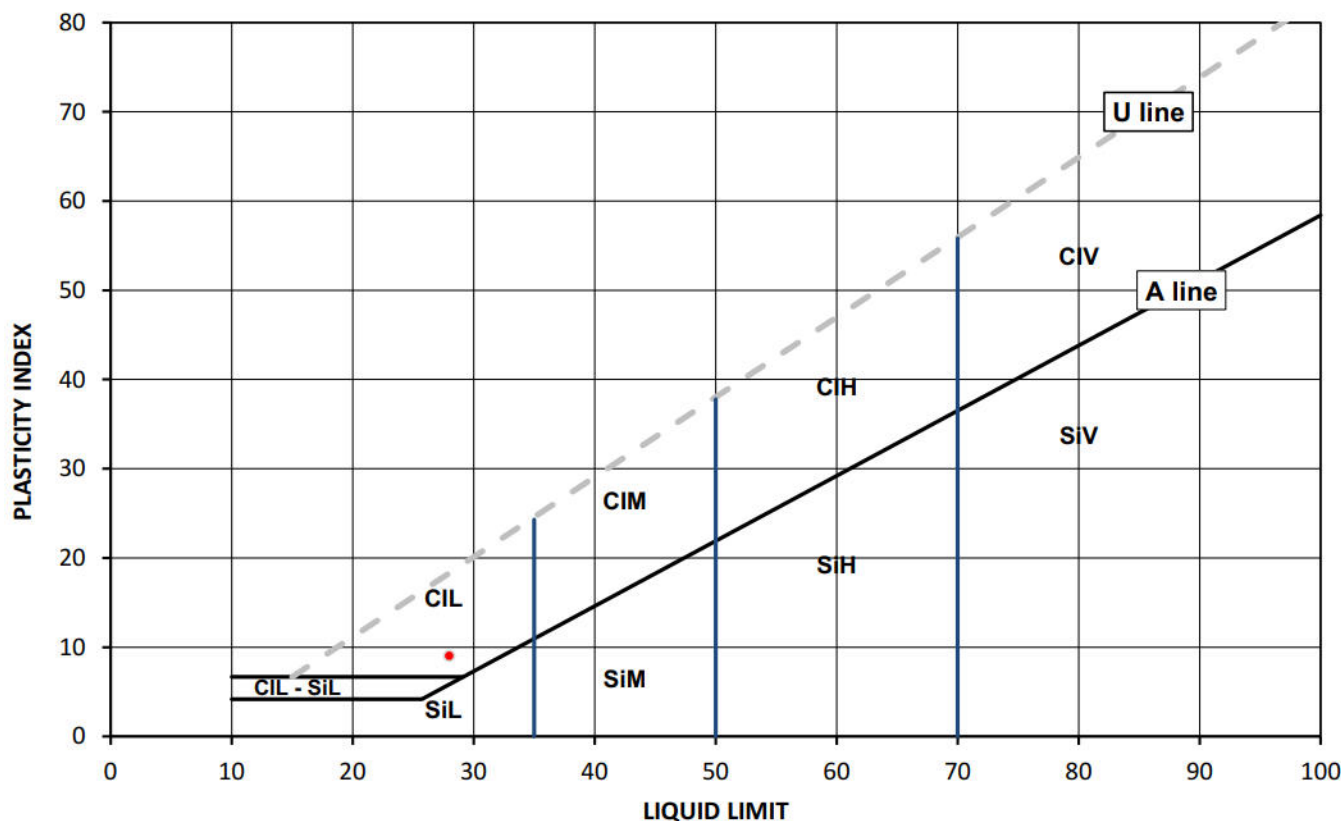
Test Results:

Laboratory Reference: 662542
 Hole No.: WS15
 Sample Reference: Not Given
 Sample Description: Brownish grey sandy CLAY

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
23.6	28	19	9	0.56	0.44	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

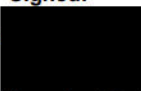
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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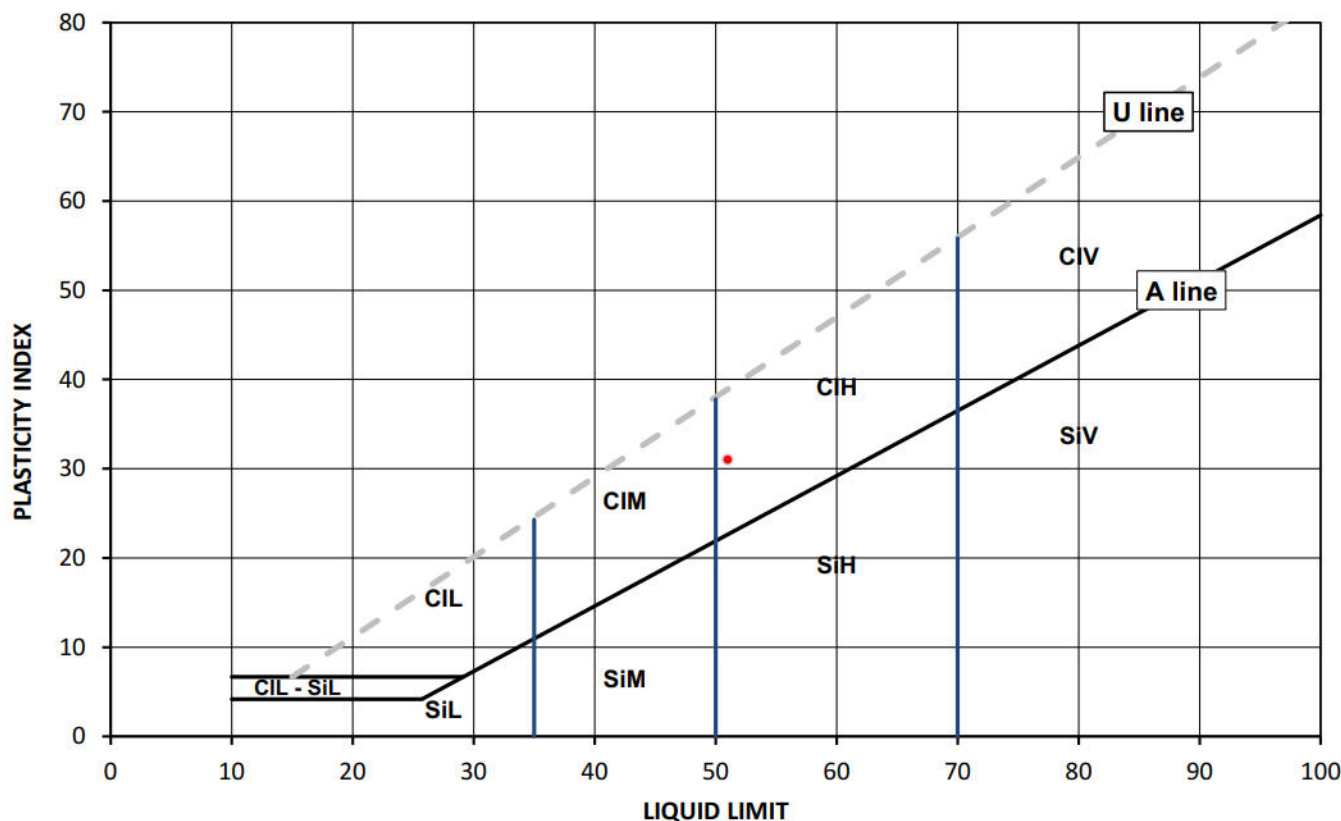
Test Results:

Laboratory Reference: 662545
 Hole No.: WS17
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 3.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
21.6	51	20	31	0.06	0.94	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

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 Geotechnical Reporting Team Leader
 for and on behalf of i2 Analytical Ltd

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Date Reported: 01/10/2025

GF 337.16

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 31/07/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

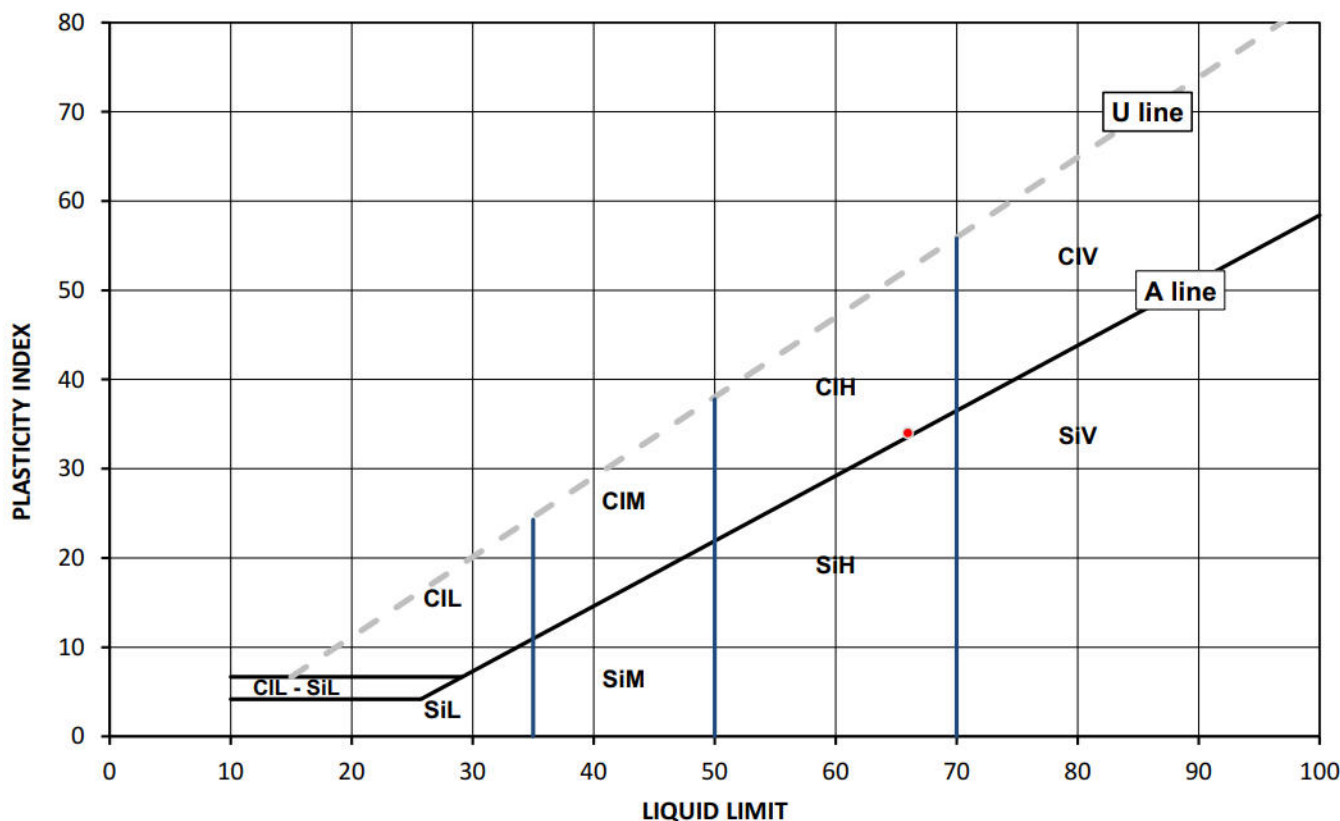
Test Results:

Laboratory Reference: 662544
 Hole No.: WS17
 Sample Reference: Not Given
 Sample Description: Brown gravelly CLAY

Depth Top [m]: 1.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
13.0	66	32	34	-0.56	1.56	54



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

Katarzyna Koziel
 Geotechnical Reporting Team Leader
 for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 31/07/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

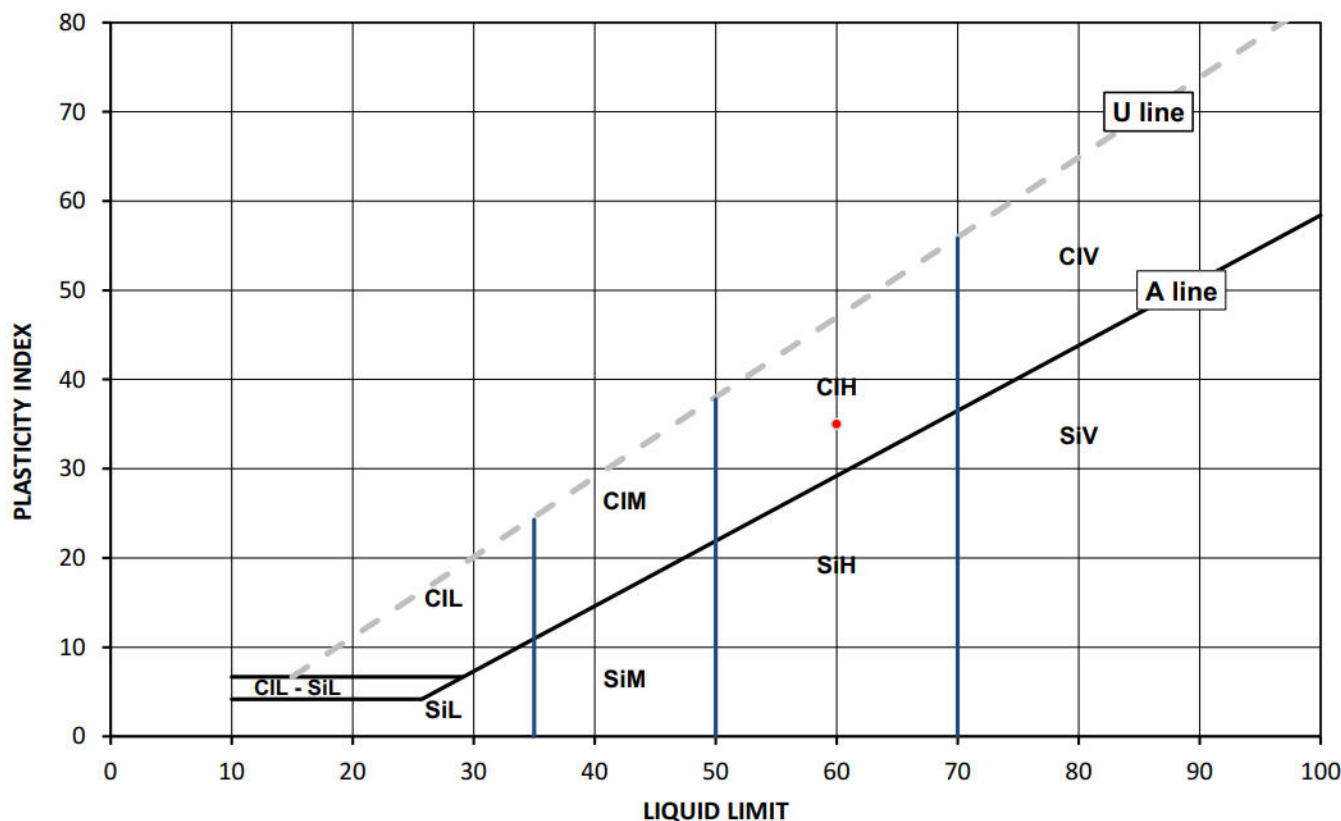
Test Results:

Laboratory Reference: 662546
 Hole No.: WS18
 Sample Reference: Not Given
 Sample Description: Brown gravelly CLAY

Depth Top [m]: 2.00
 Depth Base [m]: Not Given
 Sample Type: D

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
13.4	60	25	35	-0.34	1.34	44



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

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Katarzyna Koziel
 Geotechnical Reporting Team Leader
 for and on behalf of i2 Analytical Ltd

Date Reported: 01/10/2025

GF 337.16

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 01/08/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

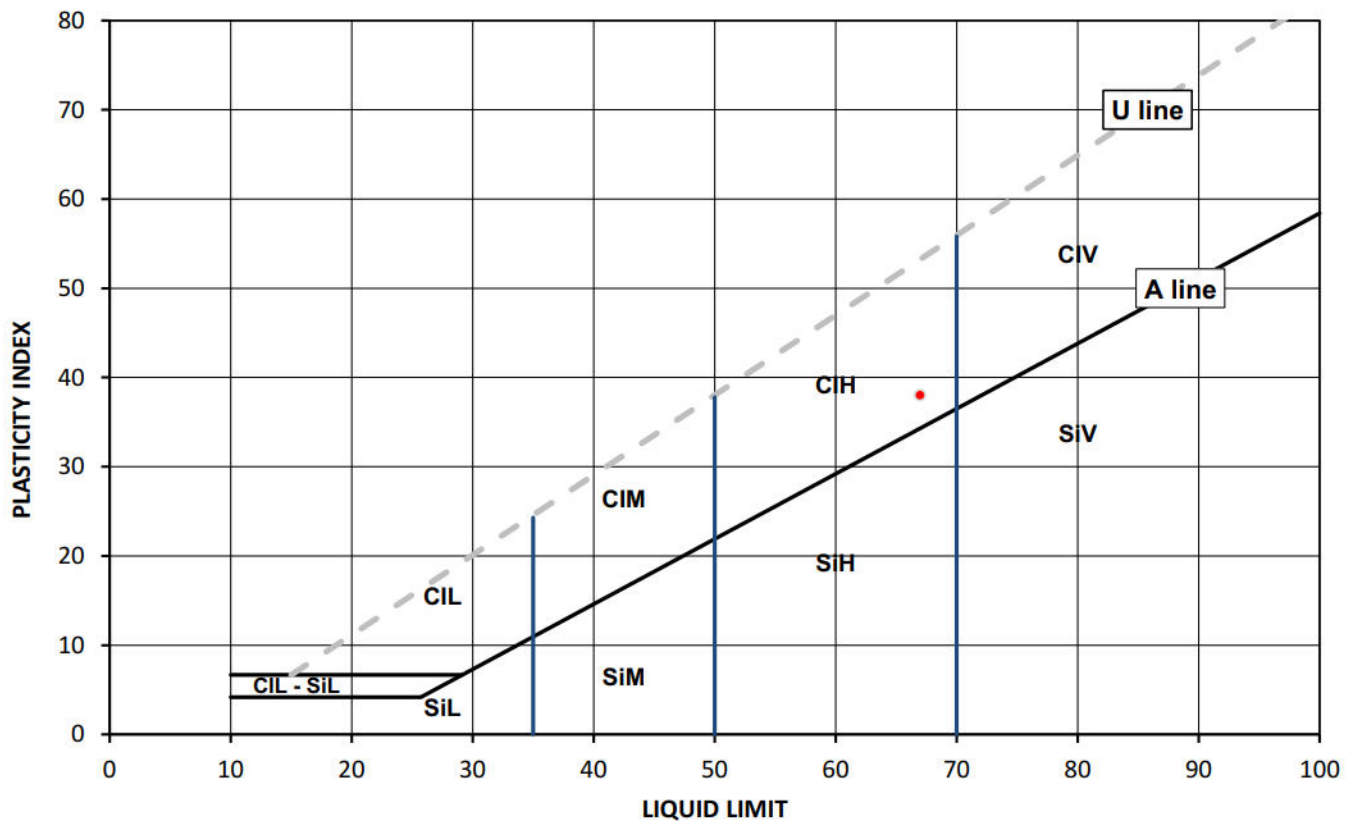
Test Results:

Laboratory Reference: 662548
 Hole No.: HP2
 Sample Reference: Not Given
 Sample Description: Brown gravelly CLAY

Depth Top [m]: 0.50
 Depth Base [m]: Not Given
 Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
12.7	67	29	38	-0.42	1.42	45



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	
	V Very high	
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

Katarzyna Koziel
 Geotechnical Reporting Team Leader
 for and on behalf of i2 Analytical Ltd

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Date Reported: 01/10/2025

GF 337.16

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
 Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
 cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022, cl 5.2 and 6

4041

Client: Enzygo Geoenvironmental Ltd
 Client Address: The Byre, Woodend Lane,
 Cromhall, Gloucestershire,
 GL12 8AA
 Contact: Matt Ward
 Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
 Job Number: 25-046005-2
 Date Sampled: 01/08/2025
 Date Received: 11/08/2025
 Date Tested: 04/09/2025
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

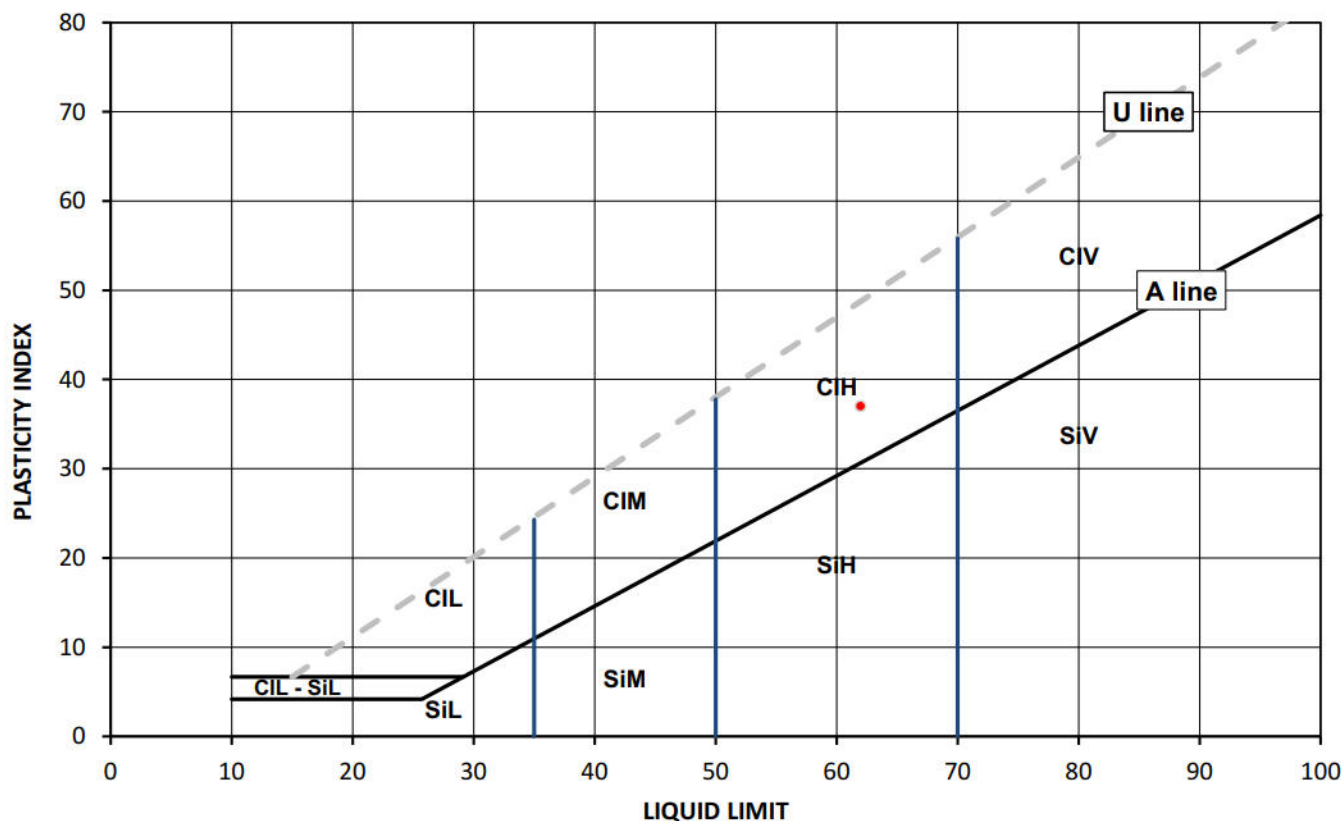
Test Results:

Laboratory Reference: 662549
 Hole No.: HP3
 Sample Reference: Not Given
 Sample Description: Brown very gravelly CLAY

Depth Top [m]: 0.50
 Depth Base [m]: Not Given
 Sample Type: B

Sample Preparation: Tested after washing to remove >0.425mm; The water content in the sample was increased
 Cone Type: 80g/30deg

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	Liquidity Index [IL] % #	Consistency Index [IC] % #	% Passing 425µm BS Test Sieve
20.8	62	25	37	-0.11	1.11	29



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

Katarzyna Koziel
 Geotechnical Reporting Team Leader
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Page 1 of 1

Date Reported: 01/10/2025

GF 337.16



SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:



4041

Client: Enzygo Geoenvironmental Ltd

Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Contact: Matt Ward

Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt
Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Client Reference: CRM.1688.044

Job Number: 25-046005-2

Date Sampled: 30/07 - 01/08/2025

Date Received: 18/08/2025

Date Tested: 04/09/2025

Sampled By: Not Given

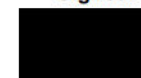
Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD
			m	m														
662518	WS1	Not Given	1.00	Not Given	D	Brown very gravelly CLAY	Atterberg 4 Point	15.0	43	75	-	27	48	80g/30 deg	WR / I			
662519	WS2	Not Given	1.00	Not Given	D	Brown very gravelly sandy CLAY	Atterberg 4 Point	12.7	45	37	-	20	17	80g/30 deg	WR / I			
662520	WS2	Not Given	2.00	Not Given	D	Brown gravelly clayey SILT	Atterberg 4 Point	13.4	60	95	-	44	51	80g/30 deg	WR / I			
662521	WS2	Not Given	3.00	Not Given	D	Light brown gravelly sandy CLAY	Atterberg 4 Point	17.0	56	41	-	19	22	80g/30 deg	WR / I			
662522	WS3	Not Given	1.00	Not Given	D	Brown gravelly silty CLAY	Atterberg 4 Point	9.9	41	65	-	31	34	80g/30 deg	WR / I			
662523	WS3	Not Given	2.00	Not Given	D	Light brown slightly gravelly very sandy CLAY	Atterberg 4 Point	24.0	95	34	-	16	18	80g/30 deg	R / I			
662524	WS4	Not Given	2.00	Not Given	D	Light brownish grey CLAY	Atterberg 4 Point	21.6	100	65	-	22	43	80g/30 deg	N / I			
662525	WS5	Not Given	1.00	Not Given	D	Brown gravelly CLAY	Atterberg 4 Point	7.2	59	92	-	32	60	80g/30 deg	WR / I			
662526	WS8	Not Given	2.00	Not Given	D	Brown clayey GRAVEL	Atterberg 4 Point	16.2	27	84	-	31	53	80g/30 deg	WR / I			
662527	WS6	Not Given	1.00	Not Given	D	Brown very gravelly CLAY	Atterberg 4 Point	12.4	45	68	-	26	42	80g/30 deg	WR / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased, D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

Signed:



Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:



4041

Client: Enzygo Geoenvironmental Ltd

Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Contact: Matt Ward

Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt
Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Client Reference: CRM.1688.044

Job Number: 25-046005-2

Date Sampled: 30/07 - 31/07/2025

Date Received: 18/08/2025

Date Tested: 04/09/2025

Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD
			m	m														
662528	WS6	Not Given	2.00	Not Given	D	Brown very gravelly CLAY	Atterberg 4 Point	6.9	35	83	-	31	52	80g/30 deg	WR / I			
662529	WS7	Not Given	3.00	Not Given	D	White clayey CHALK	Atterberg 4 Point	14.4	100	27	-	17	10	80g/30 deg	N / I			
662530	WS8	Not Given	1.00	Not Given	D	Brown very gravelly very sandy CLAY	Atterberg 4 Point	4.1	33	32	-	18	14	80g/30 deg	WR / I			
662531	WS9	Not Given	1.00	Not Given	D	Brown slightly gravelly CLAY	Atterberg 4 Point	20.5	69	64	-	26	38	80g/30 deg	WR / I			
662532	WS10	Not Given	1.00	Not Given	D	Brown slightly gravelly silty CLAY	Atterberg 4 Point	21.7	74	68	-	32	36	80g/30 deg	WR / I			
662533	WS10	Not Given	2.00	Not Given	D	Light brown CLAY with fragments of chalk	Atterberg 4 Point	22.8	100	63	-	26	37	80g/30 deg	N / I			
662534	WS11	Not Given	1.00	Not Given	D	Brown clayey GRAVEL		8.8										
662535	WS11	Not Given	2.00	Not Given	D	Light brown slightly gravelly sandy CLAY	Atterberg 4 Point	25.2	86	42	-	19	23	80g/30 deg	R / I			
662536	WS12	Not Given	3.00	Not Given	D	Cream colour slightly gravelly clayey CHALK	Atterberg 4 Point	19.5	66	29	-	19	10	80g/30 deg	WR / I			
662537	WS13	Not Given	1.00	Not Given	D	Brown gravelly slightly sandy CLAY	Atterberg 4 Point	17.3	65	59	-	25	34	80g/30 deg	WR / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased, D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

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Signed:



Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 01/10/2025

GF 362.17



SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:



4041

Client: Enzygo Geoenvironmental Ltd

BS EN ISO 17892-12:2018+A2:2022 cl 5.3 and 5.5, Fall Cone Method, 4 Pt
Test, BS 1377-2:2022, cl 5.2 and 6. W by BS EN ISO 17892-1:2014+A1:2022.

Client Reference: CRM.1688.044

Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Job Number: 25-046005-2

Date Sampled: 31/07 - 01/08/2025

Contact: Matt Ward

Date Received: 18/08/2025

Date Tested: 04/09/2025

Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD
			m	m					%	%		%	%			Mg/m3	Mg/m3	Mg/m3
662538	WS13	Not Given	2.00	Not Given	D	Brown very gravelly CLAY	Atterberg 4 Point	16.5	27	83	-	34	49	80g/30 deg	WR / I			
662539	WS14	Not Given	1.00	Not Given	D	Brown gravelly CLAY	Atterberg 4 Point	16.4	48	69	-	31	38	80g/30 deg	WR / I			
662540	WS14	Not Given	2.00	Not Given	D	Brown clayey SAND	Atterberg 4 Point	21.7	100	29	-	NP	NP	80g/30 deg	N / I			
662541	WS15	Not Given	1.00	Not Given	D	Brown clayey GRAVEL		10.3										
662542	WS15	Not Given	2.00	Not Given	D	Brownish grey sandy CLAY	Atterberg 4 Point	23.6	100	28	-	19	9	80g/30 deg	N / I			
662544	WS17	Not Given	1.00	Not Given	D	Brown gravelly CLAY	Atterberg 4 Point	13.0	54	66	-	32	34	80g/30 deg	WR / I			
662545	WS17	Not Given	3.00	Not Given	D	Brownish grey slightly sandy CLAY	Atterberg 4 Point	21.6	100	51	-	20	31	80g/30 deg	N / I			
662546	WS18	Not Given	2.00	Not Given	D	Brown gravelly CLAY	Atterberg 4 Point	13.4	44	60	-	25	35	80g/30 deg	WR / I			
662548	HP2	Not Given	0.50	Not Given	B	Brown gravelly CLAY	Atterberg 4 Point	12.7	45	67	-	29	38	80g/30 deg	WR / I			
662549	HP3	Not Given	0.50	Not Given	B	Brown very gravelly CLAY	Atterberg 4 Point	20.8	29	62	-	25	37	80g/30 deg	WR / I			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased, D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

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Signed:



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Geotechnical Reporting Team Leader
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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:



4041

Client: Enzygo Geoenvironmental Ltd

W by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022.

Client Reference: CRM.1688.044

Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Job Number: 25-046005-2

Date Sampled: 30/07 - 01/08/2025

Contact: Matt Ward

Date Received: 18/08/2025

Date Tested: 04/09/2025

Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Plastic Limit							Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL *	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD
			m	m														
662534	WS11	Not Given	1.00	Not Given	D	Brown clayey GRAVEL		8.8	23	N/A	N/A	27	N/A	N/A	WR			
662541	WS15	Not Given	1.00	Not Given	D	Brown clayey GRAVEL		10.3	16	N/A	N/A	37	N/A	N/A	WR			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0,425mm removed by hand, WR - Tested after washing to remove >425mm; I - The water content in the sample was increased , D - The water content in the sample was decreased; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments: Replaces Analytical Report Number 25-046005, issue no 1; Additional results of Plastic Limit

Signed:



Katarzyna Koziel
Geotechnical Reporting Team Leader
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SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1



4041
Client: Enzygo Geoenvironmental Ltd
Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA
Contact: Matt Ward
Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
Job Number: 25-046005-2
Date Sampled: 30/07 - 01/08/2025
Date Received: 18/08/2025
Date Tested: 04/09/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type														
662518	WS1	Not Given	1.00	Not Given	D	Brown very gravelly CLAY		15.0											
662519	WS2	Not Given	1.00	Not Given	D	Brown very gravelly sandy CLAY		12.7											
662520	WS2	Not Given	2.00	Not Given	D	Brown gravelly clayey SILT		13.4											
662521	WS2	Not Given	3.00	Not Given	D	Light brown gravelly sandy CLAY		17.0											
662522	WS3	Not Given	1.00	Not Given	D	Brown gravelly silty CLAY		9.9											
662523	WS3	Not Given	2.00	Not Given	D	Light brown slightly gravelly very sandy CLAY		24.0											
662524	WS4	Not Given	2.00	Not Given	D	Light brownish grey CLAY		21.6											
662525	WS5	Not Given	1.00	Not Given	D	Brown gravelly CLAY		7.2											
662526	WS8	Not Given	2.00	Not Given	D	Brown clayey GRAVEL		16.2											
662527	WS6	Not Given	1.00	Not Given	D	Brown very gravelly CLAY		12.4											

Comments:

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Signed:



Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 01/10/2025

GF 126.20



SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1



4041

Client: Enzygo Geoenvironmental Ltd

Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Contact: Matt Ward

Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: CRM.1688.044

Job Number: 25-046005-2

Date Sampled: 30/07 - 31/07/2025

Date Received: 18/08/2025

Date Tested: 04/09/2025

Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type														
662528	WS6	Not Given	2.00	Not Given	D	Brown very gravelly CLAY		6.9											
662529	WS7	Not Given	3.00	Not Given	D	White clayey CHALK		14.4											
662530	WS8	Not Given	1.00	Not Given	D	Brown very gravelly very sandy CLAY		4.1											
662531	WS9	Not Given	1.00	Not Given	D	Brown slightly gravelly CLAY		20.5											
662532	WS10	Not Given	1.00	Not Given	D	Brown slightly gravelly silty CLAY		21.7											
662533	WS10	Not Given	2.00	Not Given	D	Light brown CLAY with fragments of chalk		22.8											
662534	WS11	Not Given	1.00	Not Given	D	Brown clayey GRAVEL		8.8											
662535	WS11	Not Given	2.00	Not Given	D	Light brown slightly gravelly sandy CLAY		25.2											
662536	WS12	Not Given	3.00	Not Given	D	Cream colour slightly gravelly clayey CHALK		19.5											
662537	WS13	Not Given	1.00	Not Given	D	Brown gravelly slightly sandy CLAY		17.3											

Comments:

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Signed:



Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd



SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS EN ISO 17892-1:2014+A1:2022, BS 1377-2: 2022, clause 4.1



4041

Client: Enzygo Geoenvironmental Ltd

Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Contact: Matt Ward

Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: CRM.1688.044

Job Number: 25-046005-2

Date Sampled: 31/07 - 01/08/2025

Date Received: 18/08/2025

Date Tested: 04/09 - 05/09/2025

Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC											
		Reference	Depth Top m	Depth Base m	Type														
662538	WS13	Not Given	2.00	Not Given	D	Brown very gravelly CLAY		16.5											
662539	WS14	Not Given	1.00	Not Given	D	Brown gravelly CLAY		16.4											
662540	WS14	Not Given	2.00	Not Given	D	Brown clayey SAND		21.7											
662541	WS15	Not Given	1.00	Not Given	D	Brown clayey GRAVEL		10.3											
662542	WS15	Not Given	2.00	Not Given	D	Brownish grey sandy CLAY		23.6											
662544	WS17	Not Given	1.00	Not Given	D	Brown gravelly CLAY		13.0											
662545	WS17	Not Given	3.00	Not Given	D	Brownish grey slightly sandy CLAY		21.6											
662546	WS18	Not Given	2.00	Not Given	D	Brown gravelly CLAY		13.4											
662548	HP2	Not Given	0.50	Not Given	B	Brown gravelly CLAY		12.7											
662549	HP3	Not Given	0.50	Not Given	B	Brown very gravelly CLAY		20.8											

Comments:

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Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd



TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016,
BS 1377-2:2022 cl. 10



4041

Client: Enzygo Geoenvironmental Ltd
Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA
Contact: Matt Ward
Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

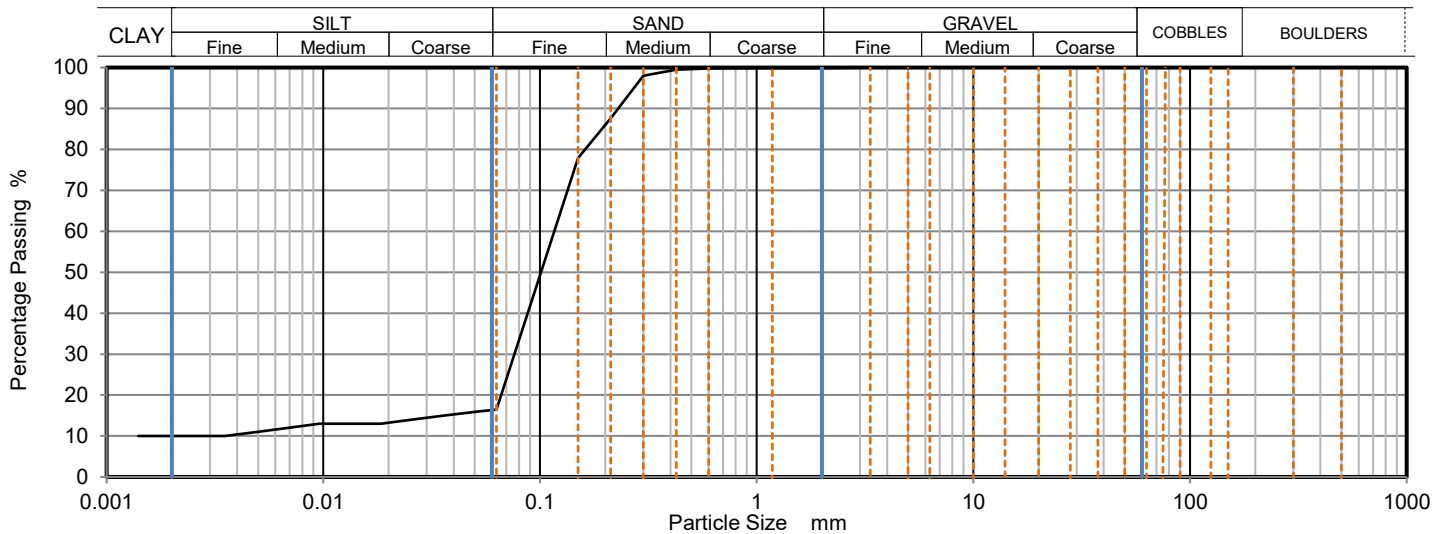
Client Reference: CRM.1688.044
Job Number: 25-046005-2
Date Sampled: 31/07/2025
Date Received: 11/08/2025
Date Tested: 04/09/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 662540
Hole No.: WS14
Sample Reference: Not Given
Sample Description: Brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 108.9 °C and broken down by hand.

Depth Top [m]: 2.00
Depth Base [m]: Not Given
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0515	16
300	100	0.0366	15
150	100	0.0258	14
125	100	0.0184	13
90	100	0.0096	13
75	100	0.0049	11
63	100	0.0035	10
50	100	0.0014	10
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100	Particle density (assumed) 2.65 Mg/m3	
0.425	100		
0.3	98		
0.212	88		
0.15	78		
0.063	16		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	84
Silt	6
Clay	10

Grading Analysis	
D100	mm 3.35
D60	mm 0.116
D30	mm 0.0763
D10	mm 0.00206
Uniformity Coefficient	57
Curvature Coefficient	24

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving and hydrometer sedimentation

Remarks:

Signed:



Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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4041

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016,
BS 1377-2:2022 cl. 10



Client: Enzygo Geoenvironmental Ltd
Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA
Contact: Matt Ward
Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

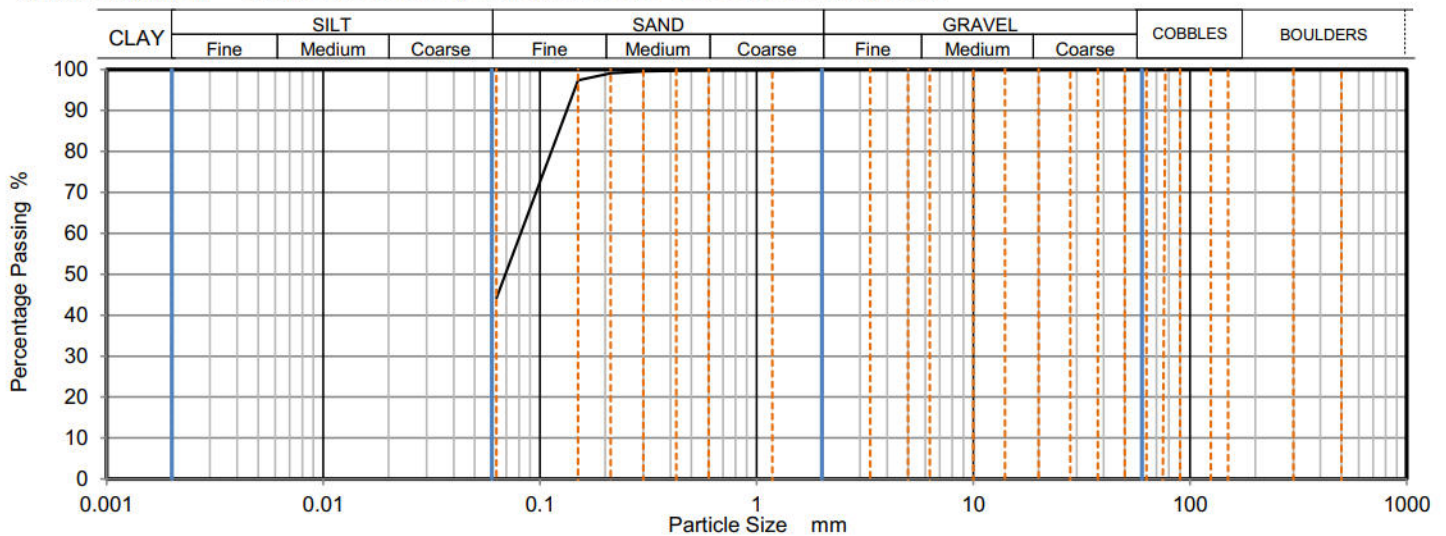
Client Reference: CRM.1688.044
Job Number: 25-046005-2
Date Sampled: 31/07/2025
Date Received: 11/08/2025
Date Tested: 04/09/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 662542
Hole No.: WS15
Sample Reference: Not Given
Sample Description: Brownish grey sandy CLAY
Sample Preparation: Sample was quartered, oven dried at 108.8 °C and broken down by hand.

Depth Top [m]: 2.00
Depth Base [m]: Not Given
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	99		
0.15	97		
0.063	44		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	56
Fines <0.063 mm	44

Grading Analysis		
D100	mm	2
D60	mm	0.0815
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

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Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 01/10/2025

GF 366.13

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016,
BS 1377-2:2022 cl. 10

4041

Client: Enzygo Geoenvironmental Ltd
Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA
Contact: Matt Ward
Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

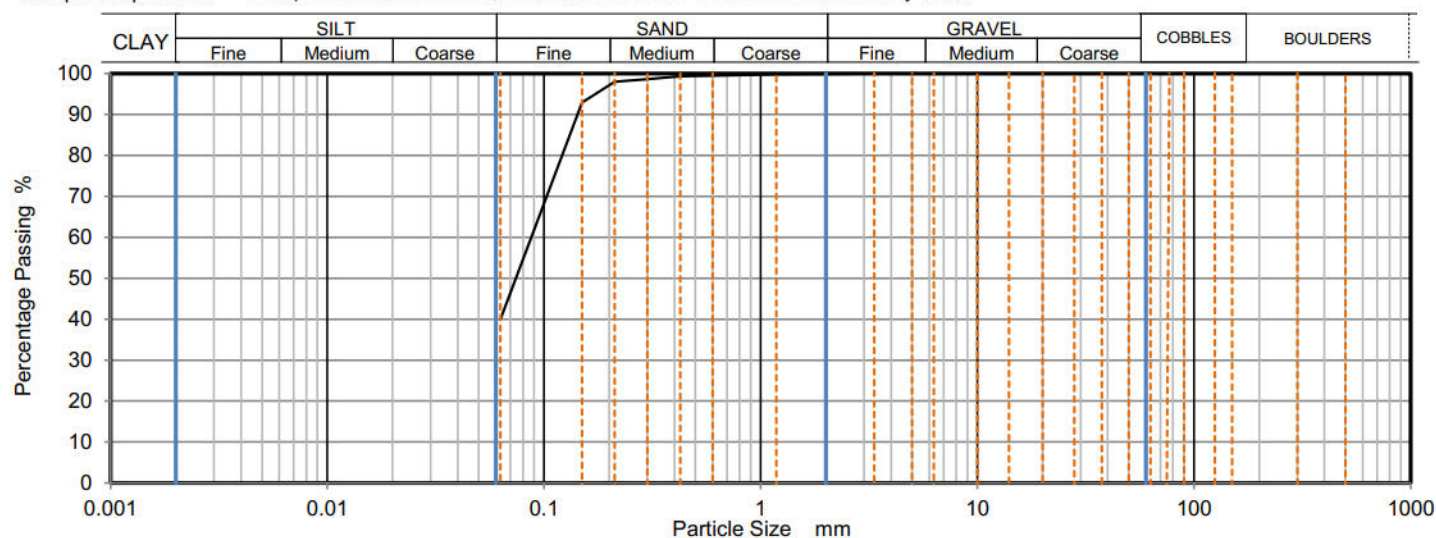
Client Reference: CRM.1688.044
Job Number: 25-046005-2
Date Sampled: 01/08/2025
Date Received: 11/08/2025
Date Tested: 04/09/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 662543
Hole No.: WS16
Sample Reference: Not Given
Sample Description: Yellowish grey very clayey SAND
Sample Preparation: Sample was whole tested, oven dried at 108.9 °C and broken down by hand.

Depth Top [m]: 2.00
Depth Base [m]: Not Given
Sample Type: D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	99		
0.3	99		
0.212	98		
0.15	93		
0.063	40		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	60
Fines <0.063 mm	40

Grading Analysis		
D100	mm	3.35
D60	mm	0.0875
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA
BEARING RATIO (CBR) TOP ONLY
Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client: Enzygo Geoenvironmental Ltd
Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA
Contact: Matt Ward
Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Client Reference: CRM.1688.044
Job Number: 25-046005-2
Date Sampled: 01/08/2025
Date Received: 11/08/2025
Date Tested: 16/09/2025
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

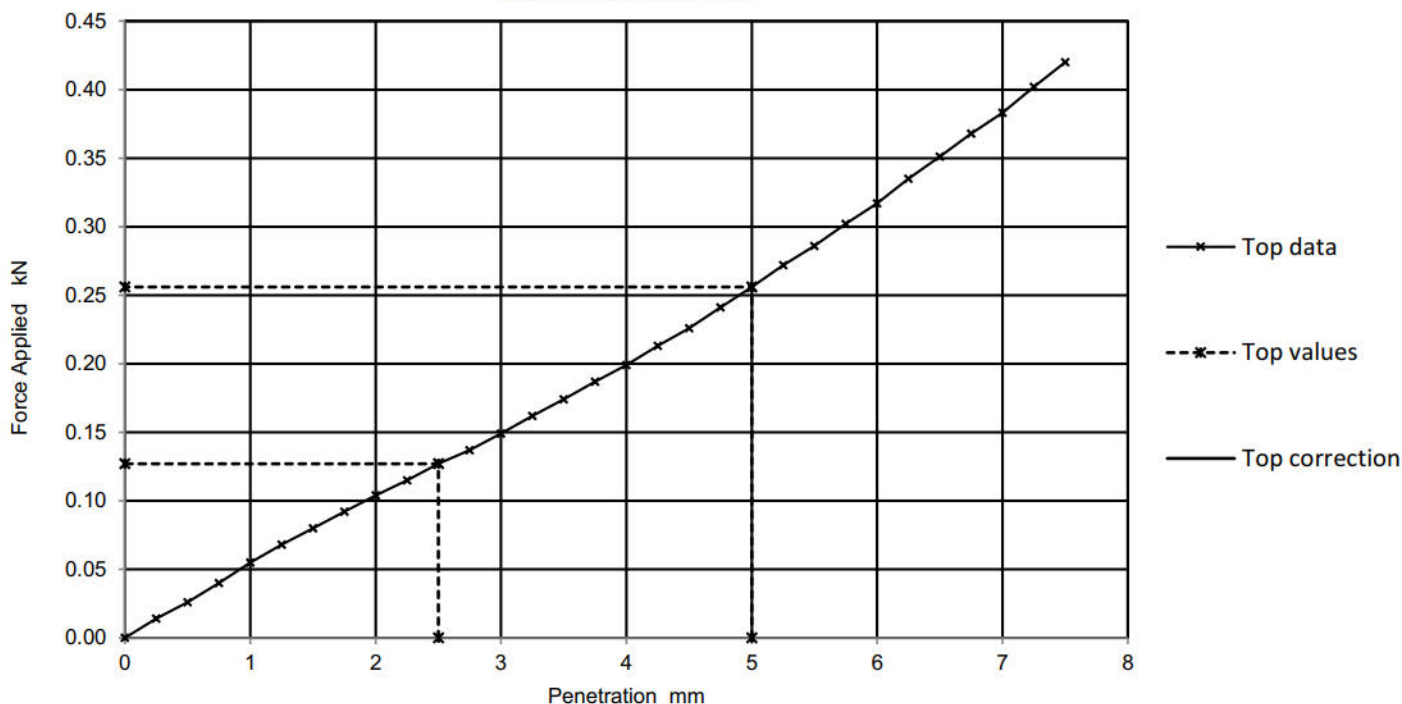
Laboratory Reference: 662547
Hole No.: HP1
Sample Reference: Not Given
Sample Description: Dark brown organic CLAY

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
		Dry density after soaking	Mg/m3
Material retained on 20mm sieve removed	18 %		
Initial Specimen details	Bulk density 1.57 Mg/m3	Surcharge applied	8 kg
	Dry density 1.09 Mg/m3		4.9 kPa
	Water content 44 %		

Force v Penetration Plots



Results

TOP

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	0.96	1.3	1.3	N/A

Water Content %
44

Remarks:

Test/ Specimen
specific remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA
BEARING RATIO (CBR) TOP ONLY
Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client: Enzygo Geoenvironmental Ltd
Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA
Contact: Matt Ward
Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: CRM.1688.044
Job Number: 25-046005-2
Date Sampled: 31/07/2025
Date Received: 11/08/2025
Date Tested: 16/09/2025
Sampled By: Not Given

Test Results:

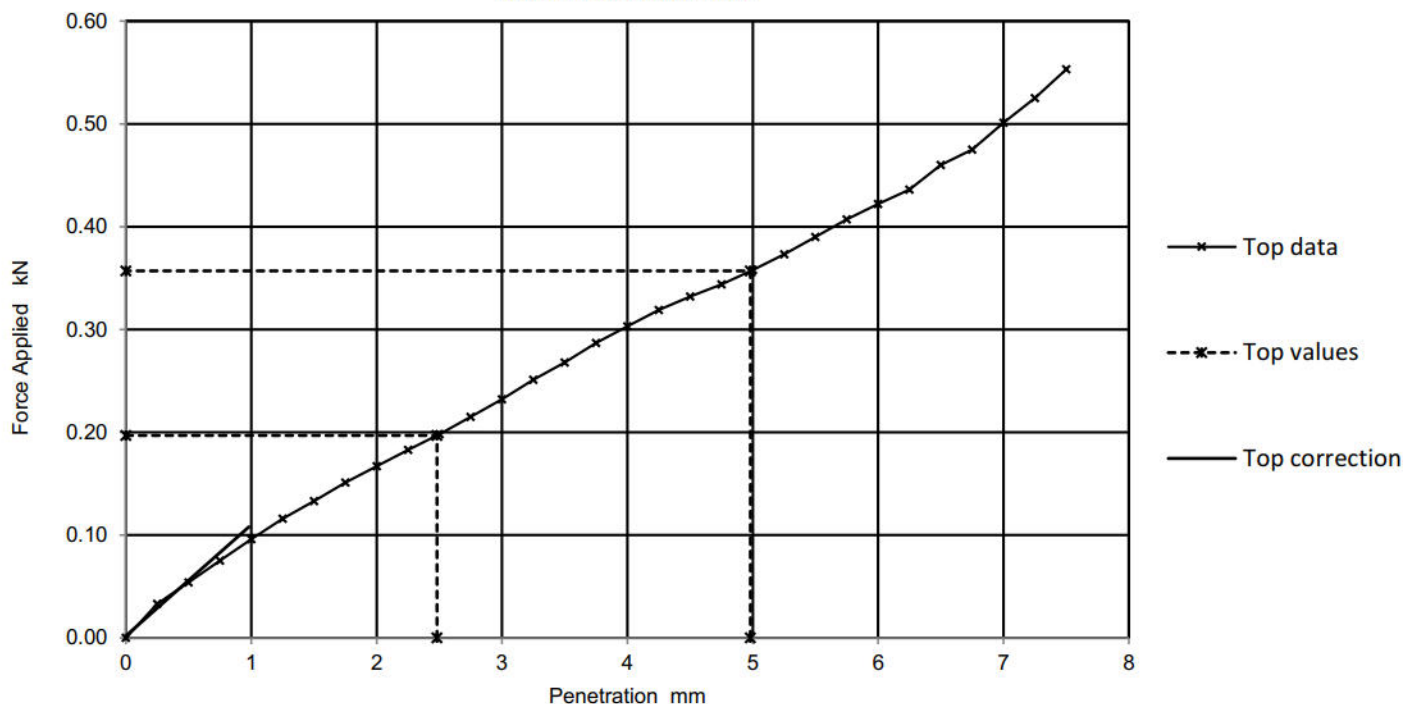
Laboratory Reference: 662550
Hole No.: WS15 + WS11
Sample Reference: COMBINED
Sample Description: Yellowish brown very gravelly CLAY

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
		Dry density after soaking	Mg/m3
Material retained on 20mm sieve removed	25 %		
Initial Specimen details	Bulk density 1.99 Mg/m3	Surcharge applied	8 kg
	Dry density 1.65 Mg/m3		4.8 kPa
	Water content 21 %		

Force v Penetration Plots



Results

TOP

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	1.5	1.8	1.8	N/A

Water Content %
17.8

Remarks:

Test/ Specimen
specific remarks:

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA
BEARING RATIO (CBR) TOP ONLY
Tested in Accordance with: BS 1377-2:2022 Cl. 15

4041

Client: Enzygo Geoenvironmental Ltd
Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA
Contact: Matt Ward
Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: CRM.1688.044
Job Number: 25-046005-2
Date Sampled: 01/08/2025
Date Received: 11/08/2025
Date Tested: 16/09/2025
Sampled By: Not Given

Test Results:

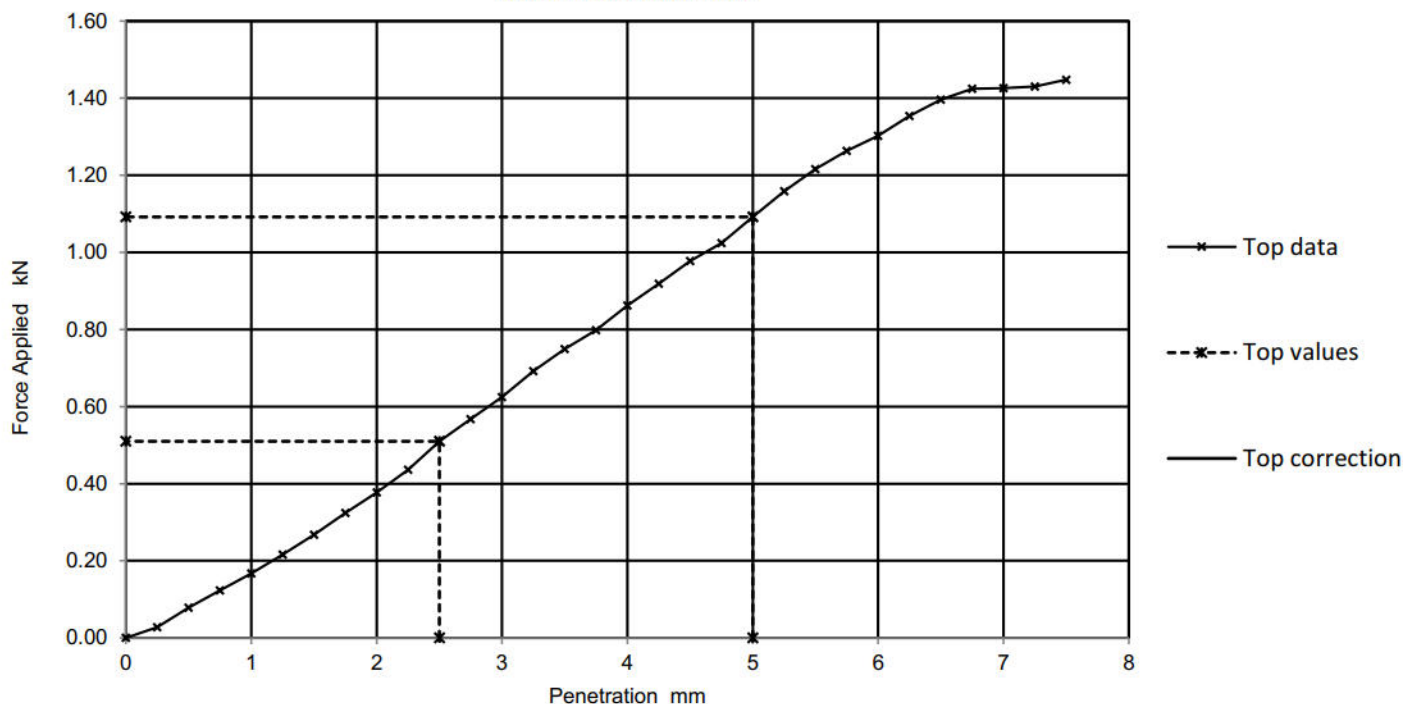
Laboratory Reference: 662565
Hole No.: HP2+HP3
Sample Reference: Combined
Sample Description: Yellowish brown very gravelly CLAY

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
		Dry density after soaking	Mg/m3
Material retained on 20mm sieve removed	25 %		
Initial Specimen details	Bulk density	2.01	Mg/m3
	Dry density	1.71	Mg/m3
	Water content	17	%
	Surcharge applied	8	kg
		4.9	kPa

Force v Penetration Plots



Results

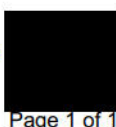
TOP

Curve correction applied	CBR Values, %				Water Content %
	2.5mm	5mm	Highest	Average	
No	3.9	5.5	5.5	N/A	20.5

Remarks:

Test/ Specimen
specific remarks:

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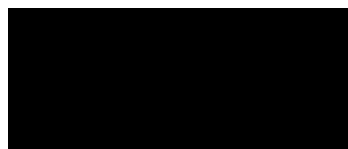
Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Enzygo Geoenvironmental Ltd
The Byre
Woodend Lane
Cromhall
Gloucestershire
GL12 8AA

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

t:

e: matt.ward@enzygo.com



Analytical Report Number : 25-046006

Project / Site name:	Wandleys Lane, Fontwell, Arundel, BN18 0QR	Samples received on:	08/08/2025
Your job number:	CRM.1688.044	Samples instructed on/ Analysis started on:	12/08/2025
Your order number:		Analysis completed by:	21/08/2025
Report Issue Number:	1	Report issued on:	21/08/2025
Samples Analysed:	10 soil samples		



Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-046006
Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Lab Sample Number				662551	662552	662553	662554	662555
Sample Reference				WS1	WS2	WS6	WS8	WS9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				1.00	2.00	2.00	1.00	1.00
Date Sampled				31/07/2025	01/08/2025	31/07/2025	30/07/2025	30/07/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)		Units	Test Limit of detection	Test Accreditation Status				

Stone Content	%	0.1	NONE	< 0.1	40.8	< 0.1	74.3	< 0.1
Moisture Content	%	0.01	NONE	11	16	8.9	5.2	14
Total mass of sample received	kg	0.1	NONE	0.5	0.5	0.5	0.5	0.5

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.6	7.7	6.9	7.9	7.6
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	11	20	16	24	14
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	5.59	10.1	7.88	12.2	6.89

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-046006

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Lab Sample Number	662556	662557	662558	662559	662560
Sample Reference	WS11	WS13	WS14	WS15	WS16
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.00	1.00	2.00	2.00	2.00
Date Sampled	31/07/2025	31/07/2025	31/07/2025	31/07/2025	01/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	66.9	61.4	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	4.8	6.7	17	18	16
Total mass of sample received	kg	0.1	NONE	0.5	0.5	0.5	0.5	0.5

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.6	7.6	7.8	7.9	7.7
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	13	19	16	15	35
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	6.62	9.52	7.89	7.5	17.5

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-046006

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
662551	WS1	None Supplied	1	Brown clay and loam with gravel and vegetation
662552	WS2	None Supplied	2	Brown clay and loam with gravel and vegetation
662553	WS6	None Supplied	2	Brown clay and loam with gravel and vegetation
662554	WS8	None Supplied	1	Brown sand with gravel and stones
662555	WS9	None Supplied	1	Brown clay and loam with gravel
662556	WS11	None Supplied	1	Brown clay and loam with gravel and stones
662557	WS13	None Supplied	1	Brown clay and loam with gravel and stones
662558	WS14	None Supplied	2	Brown sandy loam
662559	WS15	None Supplied	2	Brown sandy loam
662560	WS16	None Supplied	2	Brown sandy loam

Analytical Report Number : 25-046006

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



Sample Deviation Report



Analytical Report Number : 25-046006

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

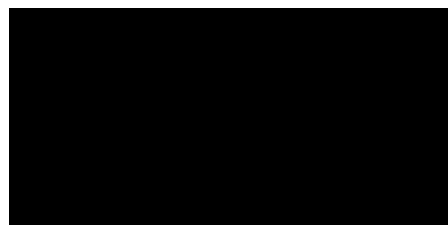
Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS1	N/A	S	662551	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS1	N/A	S	662551	c	pH in soil (automated)	L099-PL	c
WS11	N/A	S	662556	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS11	N/A	S	662556	c	pH in soil (automated)	L099-PL	c
WS13	N/A	S	662557	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS13	N/A	S	662557	c	pH in soil (automated)	L099-PL	c
WS14	N/A	S	662558	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS14	N/A	S	662558	c	pH in soil (automated)	L099-PL	c
WS15	N/A	S	662559	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS15	N/A	S	662559	c	pH in soil (automated)	L099-PL	c
WS16	N/A	S	662560	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS16	N/A	S	662560	c	pH in soil (automated)	L099-PL	c
WS2	N/A	S	662552	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS2	N/A	S	662552	c	pH in soil (automated)	L099-PL	c
WS6	N/A	S	662553	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS6	N/A	S	662553	c	pH in soil (automated)	L099-PL	c
WS8	N/A	S	662554	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS8	N/A	S	662554	c	pH in soil (automated)	L099-PL	c
WS9	N/A	S	662555	c	Sulphate, water soluble, in soil (16hr extraction)	L038B	c
WS9	N/A	S	662555	c	pH in soil (automated)	L099-PL	c

Appendix 4 – Chemical Laboratory Test Results

Enzygo Geoenvironmental Ltd
The Byre
Woodend Lane
Cromhall
Gloucestershire
GL12 8AA

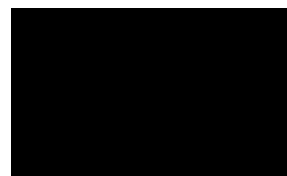
i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green

e: matt.ward@enzygo.com



Analytical Report Number : 25-045772

Project / Site name:	Wandleys Lane, Fontwell, Arundel, BN18 0QR	Samples received on:	08/08/2025
Your job number:	CRM.1668.044	Samples instructed on/ Analysis started on:	11/08/2025
Your order number:	CRM.1668.044	Analysis completed by:	20/08/2025
Report Issue Number:	1	Report issued on:	20/08/2025
Samples Analysed:	6 soil samples		



Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-045772
 Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR
 Your Order No: CRM.1668.044

Lab Sample Number	661626	661627	661628	661629	661630
Sample Reference	WS1	WS4	WS10	WS12	WS6
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	0.30	0.30	0.30	0.30
Date Sampled	31/07/2025	30/07/2025	30/07/2025	31/07/2025	31/07/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	84	62.9	52.4	30.9	63.3
Moisture Content	%	0.01	NONE	4.5	4.4	4.6	5.7	5.6
Total mass of sample received	kg	0.1	NONE	2	2	2	2	0.2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KMC	KMC	KMC	KMC	MBI
Analysis completed	N/A	N/A	N/A	01/09/2025	01/09/2025	01/09/2025	01/09/2025	02/09/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7	6.7	6.4	7	6.4
Organic Matter (automated)	%	0.1	MCERTS	0.6	1.5	2.2	1.7	0.8
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.3	0.8	1.2	1	0.5

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.05	< 0.05	< 0.05	0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.1	0.16	< 0.05	0.08
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.12	< 0.05	< 0.05	0.11
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.07	0.08	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.1	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.08	0.12	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.06	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.09	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.9	5.6	6.2	7	5.5
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.6	0.7	0.7	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	0.5	0.3	0.3	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	U/S ^{mg/kg}
Chromium (VI) by IC	mg/kg	1.8	NONE	-	-	-	-	< 1.80
Chromium (III) by IC	mg/kg	1	NONE	-	-	-	-	16
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	15	19	23	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	8.7	11	11	11
Lead (aqua regia extractable)	mg/kg	1	MCERTS	7.3	20	20	18	13
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	8.6	10	13	8.2
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	30	28	41	46	28

Analytical Report Number: 25-045772
 Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR
 Your Order No: CRM.1668.044

Lab Sample Number	661626	661627	661628	661629	661630
Sample Reference	WS1	WS4	WS10	WS12	WS6
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.30	0.30	0.30	0.30	0.30
Date Sampled	31/07/2025	30/07/2025	30/07/2025	31/07/2025	31/07/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 25-045772
 Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR
 Your Order No: CRM.1668.044

Lab Sample Number	661631			
Sample Reference	WS15			
Sample Number	None Supplied			
Water Matrix	N/A			
Depth (m)	0.30			
Date Sampled	31/07/2025			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	60.5
Moisture Content	%	0.01	NONE	5.3
Total mass of sample received	kg	0.1	NONE	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KMC
Analysis completed	N/A	N/A	N/A	01/09/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.6
Organic Matter (automated)	%	0.1	MCERTS	1.1
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.6

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.7
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (VI) by IC	mg/kg	1.8	NONE	-
Chromium (III) by IC	mg/kg	1	NONE	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	9.3
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	35

Analytical Report Number: 25-045772
 Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR
 Your Order No: CRM.1668.044

Lab Sample Number				661631
Sample Reference				WS15
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				0.30
Date Sampled				31/07/2025
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-045772

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
661626	WS1	None Supplied	0.3	Brown clay and sand with vegetation and stones
661627	WS4	None Supplied	0.3	Brown clay and sand with vegetation and stones
661628	WS10	None Supplied	0.3	Brown clay and sand with vegetation and stones
661629	WS12	None Supplied	0.3	Brown sand with vegetation and stones
661630	WS6	None Supplied	0.3	Brown loam and sand with vegetation and stones
661631	WS15	None Supplied	0.3	Brown sand with vegetation and stones

Analytical Report Number : 25-045772

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

Analytical Report Number : 25-045772

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Cr(VI) in soils by Ion chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L1308	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

*U/S g- Unsuitable for analysis due to high colour intensity.

Analytical Report Number : 25-045772

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS1	N/A	S	661626	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS1	N/A	S	661626	bc	Hexavalent chromium in soil	L080-PL	c
WS1	N/A	S	661626	bc	Metals in soil by ICP-OES	L038B	c
WS1	N/A	S	661626	bc	Organic matter (Automated) in soil	L009B	c
WS1	N/A	S	661626	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS1	N/A	S	661626	bc	Total organic carbon (Automated) in soil	L009B	c
WS1	N/A	S	661626	bc	Total petroleum hydrocarbons with carbon banding by GC-FID in soil	L076B	c
WS1	N/A	S	661626	bc	pH in soil (automated)	L099-PL	c
WS10	N/A	S	661628	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS10	N/A	S	661628	bc	Hexavalent chromium in soil	L080-PL	c
WS10	N/A	S	661628	bc	Metals in soil by ICP-OES	L038B	c
WS10	N/A	S	661628	bc	Organic matter (Automated) in soil	L009B	c
WS10	N/A	S	661628	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS10	N/A	S	661628	bc	Total organic carbon (Automated) in soil	L009B	c
WS10	N/A	S	661628	bc	Total petroleum hydrocarbons with carbon banding by GC-FID in soil	L076B	c
WS10	N/A	S	661628	bc	pH in soil (automated)	L099-PL	c
WS12	N/A	S	661629	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS12	N/A	S	661629	bc	Hexavalent chromium in soil	L080-PL	c
WS12	N/A	S	661629	bc	Metals in soil by ICP-OES	L038B	c
WS12	N/A	S	661629	bc	Organic matter (Automated) in soil	L009B	c
WS12	N/A	S	661629	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS12	N/A	S	661629	bc	Total organic carbon (Automated) in soil	L009B	c
WS12	N/A	S	661629	bc	Total petroleum hydrocarbons with carbon banding by GC-FID in soil	L076B	c
WS12	N/A	S	661629	bc	pH in soil (automated)	L099-PL	c
WS15	N/A	S	661631	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS15	N/A	S	661631	bc	Hexavalent chromium in soil	L080-PL	c
WS15	N/A	S	661631	bc	Metals in soil by ICP-OES	L038B	c
WS15	N/A	S	661631	bc	Organic matter (Automated) in soil	L009B	c
WS15	N/A	S	661631	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS15	N/A	S	661631	bc	Total organic carbon (Automated) in soil	L009B	c
WS15	N/A	S	661631	bc	Total petroleum hydrocarbons with carbon banding by GC-FID in soil	L076B	c
WS15	N/A	S	661631	bc	pH in soil (automated)	L099-PL	c
WS4	N/A	S	661627	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS4	N/A	S	661627	bc	Hexavalent chromium in soil	L080-PL	c
WS4	N/A	S	661627	bc	Metals in soil by ICP-OES	L038B	c
WS4	N/A	S	661627	bc	Organic matter (Automated) in soil	L009B	c
WS4	N/A	S	661627	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS4	N/A	S	661627	bc	Total organic carbon (Automated) in soil	L009B	c
WS4	N/A	S	661627	bc	Total petroleum hydrocarbons with carbon banding by GC-FID in soil	L076B	c
WS4	N/A	S	661627	bc	pH in soil (automated)	L099-PL	c
WS6	N/A	S	661630	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS6	N/A	S	661630	bc	Hexavalent chromium in soil	L080-PL	c
WS6	N/A	S	661630	bc	Metals in soil by ICP-OES	L038B	c
WS6	N/A	S	661630	bc	Organic matter (Automated) in soil	L009B	c
WS6	N/A	S	661630	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	bc
WS6	N/A	S	661630	bc	Total organic carbon (Automated) in soil	L009B	c
WS6	N/A	S	661630	bc	Total petroleum hydrocarbons with carbon banding by GC-FID in soil	L076B	bc
WS6	N/A	S	661630	bc	pH in soil (automated)	L099-PL	c

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Analytical Report Number : 25-045904

Project / Site name:	Wandleys Lane, Fontwell, Arundel, BN18 0QR	Samples received on:	08/08/2025
Your job number:	CRM.1668.044	Samples instructed on/ Analysis started on:	11/08/2025
Your order number:	CRM.1668.044	Analysis completed by:	20/08/2025
Report Issue Number:	1	Report issued on:	21/08/2025
Samples Analysed:	4 soil samples		

Signed

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-045904
 Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR
 Your Order No: CRM.1668.044

Lab Sample Number	662035	662036	662037	662038
Sample Reference	WS2	WS8	WS18	WS16
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.30	0.30	0.30	0.30
Date Sampled	01/08/2025	30/07/2025	01/08/2025	01/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	45.9	40.4	61.3	< 0.1
Moisture Content	%	0.01	NONE	8.8	4.6	4.5	12
Total mass of sample received	kg	0.1	NONE	2	2	2	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	PKU	PKU	PKU	PKU
Analysis completed	N/A	N/A	N/A	02/09/2025	02/09/2025	02/09/2025	02/09/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.3	6.1	8	6.2
Organic Matter (automated)	%	0.1	MCERTS	0.4	1.7	1.2	2
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.2	1	0.7	1.2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.73	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.23	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.1	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	1	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.54	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.57	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.61	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.33	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.51	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.34	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.09	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.41	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	6.46	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.9	6.5	4.4	6.6
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	0.6	0.5	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2	< 0.2	< 0.2	0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	U/S ^{tu/s g}
Chromium (VI) by IC	mg/kg	1.8	NONE	-	-	-	< 1.80
Chromium (III) by IC	mg/kg	1	NONE	-	-	-	19
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	27	18	16	19
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	10	14	12
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	21	11	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	8.7	7.8	9.9
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	31	33	25	37

Analytical Report Number: 25-045904
 Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR
 Your Order No: CRM.1668.044

Lab Sample Number	662035	662036	662037	662038
Sample Reference	WS2	WS8	WS18	WS16
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.30	0.30	0.30	0.30
Date Sampled	01/08/2025	30/07/2025	01/08/2025	01/08/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 25-045904

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
662035	WS2	None Supplied	0.3	Brown clay and sand with gravel and stones
662036	WS8	None Supplied	0.3	Brown sandy loam with vegetation and stones
662037	WS18	None Supplied	0.3	Brown sandy loam with vegetation and stones
662038	WS16	None Supplied	0.3	Brown loam and clay with gravel and vegetation

Analytical Report Number : 25-045904

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

Analytical Report Number : 25-045904

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Cr(VI) in soils by Ion chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L1308	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

*U/S g- Unsuitable for analysis due to high colour intensity.

Analytical Report Number : 25-045904

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS16	N/A	S	662038	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS16	N/A	S	662038	bc	Hexavalent chromium in soil	L080-PL	c
WS16	N/A	S	662038	bc	Metals in soil by ICP-OES	L038B	c
WS16	N/A	S	662038	bc	Organic matter (Automated) in soil	L009B	c
WS16	N/A	S	662038	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS16	N/A	S	662038	bc	Total organic carbon (Automated) in soil	L009B	c
WS16	N/A	S	662038	bc	Total petroleum hydrocarbons with carbon banding by GC-FID in soil	L076B	c
WS16	N/A	S	662038	bc	pH in soil (automated)	L099-PL	c
WS18	N/A	S	662037	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS18	N/A	S	662037	bc	Hexavalent chromium in soil	L080-PL	c
WS18	N/A	S	662037	bc	Metals in soil by ICP-OES	L038B	c
WS18	N/A	S	662037	bc	Organic matter (Automated) in soil	L009B	c
WS18	N/A	S	662037	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS18	N/A	S	662037	bc	Total organic carbon (Automated) in soil	L009B	c
WS18	N/A	S	662037	bc	Total petroleum hydrocarbons with carbon banding by GC-FID in soil	L076B	c
WS18	N/A	S	662037	bc	pH in soil (automated)	L099-PL	c
WS2	N/A	S	662035	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS2	N/A	S	662035	bc	Hexavalent chromium in soil	L080-PL	c
WS2	N/A	S	662035	bc	Metals in soil by ICP-OES	L038B	c
WS2	N/A	S	662035	bc	Organic matter (Automated) in soil	L009B	c
WS2	N/A	S	662035	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS2	N/A	S	662035	bc	Total organic carbon (Automated) in soil	L009B	c
WS2	N/A	S	662035	bc	Total petroleum hydrocarbons with carbon banding by GC-FID in soil	L076B	c
WS2	N/A	S	662035	bc	pH in soil (automated)	L099-PL	c
WS8	N/A	S	662036	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS8	N/A	S	662036	bc	Hexavalent chromium in soil	L080-PL	c
WS8	N/A	S	662036	bc	Metals in soil by ICP-OES	L038B	c
WS8	N/A	S	662036	bc	Organic matter (Automated) in soil	L009B	c
WS8	N/A	S	662036	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	c
WS8	N/A	S	662036	bc	Total organic carbon (Automated) in soil	L009B	c
WS8	N/A	S	662036	bc	Total petroleum hydrocarbons with carbon banding by GC-FID in soil	L076B	c
WS8	N/A	S	662036	bc	pH in soil (automated)	L099-PL	c

Enzygo Geoenvironmental Ltd
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Woodend Lane
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i2 Analytical Ltd.
7 Woodshots Meadow,
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Analytical Report Number : 25-045774

Project / Site name:	Wandleys Lane, Fontwell, Arundel, BN18 0QR	Samples received on:	08/08/2025
Your job number:	CRM.1668.044	Samples instructed on/ Analysis started on:	12/08/2025
Your order number:	CRM.1668.044	Analysis completed by:	21/08/2025
Report Issue Number:	1	Report issued on:	22/08/2025
Samples Analysed:	5 soil samples - 5 2stage samples		

Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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: 25-045774
 Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR
 Your Order No: CRM.1668.044

Lab Sample Number	661632	661633	661634	661635	661636
Sample Reference	WS4	WS7	WS12	WS16	WS1
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.00	1.00	1.00	1.00	2.00
Date Sampled	30/07/2025	30/07/2025	01/08/2025	01/08/2025	31/07/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	53.3	48.4	40.9	< 0.1	53.2
Moisture Content	%	0.01	NONE	7.2	9.7	7.9	14	8.8
Total mass of sample received	kg	0.1	NONE	1.2	1.3	1.3	1.2	1.3

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	7	7	6.9	7	6.9
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	0.3	0.3	0.3	0.2	< 0.1
Loss on Ignition @ 450°C	%	0.2	MCERTS	1.9	2.5	1.8	1.9	1.8
Acid Neutralisation Capacity	mmol/kg	-9999	NONE	0	0	-0.59	0	-0.59

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.17	< 0.05	0.08
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.14	< 0.05	0.21
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.21
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.07	< 0.05	0.12
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.07	< 0.05	0.13
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	0.21
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	0.06
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.15
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.1
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.12
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	< 0.85	< 0.85	< 0.85	1.41
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Petroleum Hydrocarbons

Mineral Oil (EC10 - EC40) EH_CU_ID_AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
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VOCs

Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Total BTEX	µg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
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Analytical Report Number: 25-045774

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Your Order No: CRM.1668.044

Lab Sample Number	661632	661633	661634	661635	661636
Sample Reference	WS4	WS7	WS12	WS16	WS1
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	1.00	1.00	1.00	1.00	2.00
Date Sampled	30/07/2025	30/07/2025	01/08/2025	01/08/2025	31/07/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total PCBs	mg/kg	0.007	MCERTS	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



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

Waste Acceptance Criteria Analytical Results							
Report No:	25-045774						
					Client: ENZYGO GEO		
Location	Wandleys Lane, Fontwell, Arundel, BN18 0QR						
Lab Reference (Sample Number)	661632				Landfill Waste Acceptance Criteria		
Sampling Date	30/07/2025				Limits		
Sample ID	WS4				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	1.00						
Solid Waste Analysis							
TOC (%)**	0.3				3%	5%	6%
Loss on Ignition (%) **	1.9				--	--	10%
BTEX (µg/kg)**	< 10				6000	--	--
Sum of PCBs (mg/kg)**	< 0.007				1	--	--
Mineral Oil (mg/kg) EH, ID, CU, AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	0				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l		mg/l	mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.0020	< 0.0020		< 0.020	0.5	2	25
Barium *	0.0086	0.0049		0.049	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	< 0.00060	0.002		0.02	0.5	10	70
Copper *	0.025	0.0013		0.013	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	0.0034	< 0.0014		< 0.014	0.5	10	30
Nickel *	< 0.00090	0.0018		0.018	0.4	10	40
Lead *	< 0.0017	< 0.0017		< 0.017	0.5	10	50
Antimony *	< 0.0020	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.0014	0.01		0.1	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
Fluoride*	0.14	0.27		2.7	10	150	500
Sulphate *	24	2.6		26	1000	20000	50000
TDS*	130	43		430	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.16	< 0.13		< 0.50	1	-	-
DOC	4.63	7.3		72.5	500	800	1000
Leach Test Information							
Stone Content (%)	53.3						
Sample Mass (kg)	1.2						
Dry Matter (%)	93						
Moisture (%)	7.2						
Stage 1							
Volume Eluate L2 (litres)	0.334						
Filtered Eluate VE1 (litres)	0						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							
** = UKAS accredited (liquid eluate analysis only)							
** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.

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.



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

Waste Acceptance Criteria Analytical Results							
Report No:	25-045774						
				Client: ENZYGO GEO			
Location	Wandleys Lane, Fontwell, Arundel, BN18 0QR						
Lab Reference (Sample Number)	661633			Landfill Waste Acceptance Criteria			
Sampling Date	30/07/2025			Limits			
Sample ID	WS7			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	1.00						
Solid Waste Analysis							
TOC (%)**	0.3			3%	5%	6%	
Loss on Ignition (%) **	2.5			--	--	10%	
BTEX (µg/kg)**	< 10			6000	--	--	
Sum of PCBs (mg/kg)**	< 0.007			1	--	--	
Mineral Oil (mg/kg) EH, ID, CU, AL	< 10			500	--	--	
Total PAH (WAC-17) (mg/kg)	< 0.85			100	--	--	
pH (units)**	7			--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	0			--	To be evaluated	To be evaluated	
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l		mg/l	mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.0020	< 0.0020		< 0.020	0.5	2	25
Barium *	0.023	0.0012		0.012	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	0.0017	< 0.00060		< 0.0060	0.5	10	70
Copper *	0.063	0.0042		0.042	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	< 0.0014	< 0.0014		< 0.014	0.5	10	30
Nickel *	0.0012	0.0012		0.012	0.4	10	40
Lead *	< 0.0017	< 0.0017		< 0.017	0.5	10	50
Antimony *	< 0.0020	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.025	0.0035		0.035	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	15000	25000
Fluoride*	0.068	0.14		1.4	10	150	500
Sulphate *	22	3		30	1000	20000	50000
TDS*	53	15		150	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.16	< 0.13		< 0.50	1	-	-
DOC	3.12	12		119	500	800	1000
Leach Test Information							
Stone Content (%)	48.4						
Sample Mass (kg)	1.3						
Dry Matter (%)	90						
Moisture (%)	9.7						
Stage 1							
Volume Eluate L2 (litres)	0.32						
Filtered Eluate VE1 (litres)	0						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							
** = UKAS accredited (liquid eluate analysis only)							
** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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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.



i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Waste Acceptance Criteria Analytical Results							
Report No:	25-045774						
				Client: ENZYGO GEO			
Location	Wandleys Lane, Fontwell, Arundel, BN18 0QR						
Lab Reference (Sample Number)	661634			Landfill Waste Acceptance Criteria			
Sampling Date	01/08/2025			Limits			
Sample ID	WS12			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	1.00						
Solid Waste Analysis							
TOC (%)**	0.3			3%	5%	6%	
Loss on Ignition (%) **	1.8			--	--	10%	
BTEX (µg/kg)**	< 10			6000	--	--	
Sum of PCBs (mg/kg)**	< 0.007			1	--	--	
Mineral Oil (mg/kg) EH, 10, CU, AL	< 10			500	--	--	
Total PAH (WAC-17) (mg/kg)	< 0.85			100	--	--	
pH (units)**	6.9			--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	-0.59			--	To be evaluated	To be evaluated	
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.0020	0.0026		0.026	0.5	2	25
Barium *	0.013	0.0089		0.089	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	< 0.00060	0.0038		0.038	0.5	10	70
Copper *	0.016	0.0022		0.022	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	< 0.0014	< 0.0014		< 0.014	0.5	10	30
Nickel *	0.0011	0.0028		0.028	0.4	10	40
Lead *	< 0.0017	0.0028		0.028	0.5	10	50
Antimony *	< 0.0020	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.026	0.0067		0.067	4	50	200
Chloride *	< 4.0	< 4.0		20	800	15000	25000
Fluoride *	0.077	0.16		1.6	10	150	500
Sulphate *	20	4.2		42	1000	20000	50000
TDS*	55	22		220	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.16	< 0.13		< 0.50	1	-	-
DOC	3.8	18		178	500	800	1000
Leach Test Information							
Stone Content (%)	40.9						
Sample Mass (kg)	1.3						
Dry Matter (%)	92						
Moisture (%)	7.9						
Stage 1							
Volume Eluate L2 (litres)	0.335						
Filtered Eluate VE1 (litres)	0						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.

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.



i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Waste Acceptance Criteria Analytical Results							
Report No:	25-045774						
				Client: ENZYGO GEO			
Location	Wandleys Lane, Fontwell, Arundel, BN18 0QR						
Lab Reference (Sample Number)	661636			Landfill Waste Acceptance Criteria			
Sampling Date	31/07/2025			Limits			
Sample ID	WS1			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	2.00						
Solid Waste Analysis							
TOC (%)**	< 0.1			3%	5%	6%	
Loss on Ignition (%) **	1.8			--	--	10%	
BTEX (µg/kg)**	< 10			6000	--	--	
Sum of PCBs (mg/kg)**	< 0.007			1	--	--	
Mineral Oil (mg/kg) EH, ID, CU, AL	< 10			500	--	--	
Total PAH (WAC-17) (mg/kg)	1.41			100	--	--	
pH (units)**	6.9			--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	-0.59			--	To be evaluated	To be evaluated	
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l		mg/l	mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.0020	< 0.0020		< 0.020	0.5	2	25
Barium *	0.017	0.0061		0.072	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	0.00073	0.0027		0.025	0.5	10	70
Copper *	0.017	0.0074		0.084	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	< 0.0014	< 0.0014		< 0.014	0.5	10	30
Nickel *	< 0.00090	0.002		0.018	0.4	10	40
Lead *	0.002	< 0.0017		< 0.017	0.5	10	50
Antimony *	< 0.0020	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.0057	0.0044		0.045	4	50	200
Chloride *	< 4.0	< 4.0		17	800	15000	25000
Fluoride *	0.079	0.15		1.4	10	150	500
Sulphate *	2.5	2.8		28	1000	20000	50000
TDS*	50	18		210	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.16	< 0.13		< 0.50	1	-	-
DOC	1.87	11		98.5	500	800	1000
Leach Test Information							
Stone Content (%)	53.2						
Sample Mass (kg)	1.3						
Dry Matter (%)	91						
Moisture (%)	8.8						
Stage 1							
Volume Eluate L2 (litres)	0.331						
Filtered Eluate VE1 (litres)	0.18						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							
** = UKAS accredited (liquid eluate analysis only)							
** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.

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 : 25-045774

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
661632	WS4	None Supplied	1	Brown clay and sand with stones
661633	WS7	None Supplied	1	Brown clay and sand with stones
661634	WS12	None Supplied	1	Brown clay and sand with stones
661635	WS16	None Supplied	1	Brown clay and sand
661636	WS1	None Supplied	2	Brown clay and sand with stones

Analytical Report Number : 25-045774

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L023B	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031B	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1 ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033B	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037B	W	NONE
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039B	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039B	W	ISO 17025
Two stage WAC leachate preparation	Two stage batch test at a liquid to solid ratio of 2 L/kg and 8 L/kg	BS EN 12457-3-2002	L043B	W	ISO 17025
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	NONE

Analytical Report Number : 25-045774

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Analytical Report Number : 25-045774

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS1	N/A	2	661636	bc	Two stage WAC leachate preparation	L043B	b
WS1	N/A	S	661636	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS1	N/A	S	661636	bc	Loss on ignition of soil @ 450°C	L047-PL	c
WS1	N/A	S	661636	bc	PCB's By GC-MS in soil	L027B	bc
WS1	N/A	S	661636	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	bc
WS1	N/A	S	661636	bc	Total organic carbon in soil	L023B	c
WS1	N/A	S	661636	bc	Total petroleum hydrocarbons by GC-FID in soil	L076B	bc
WS1	N/A	S	661636	bc	pH at 20°C in soil	L005B	c
WS12	N/A	2	661634	bc	Two stage WAC leachate preparation	L043B	b
WS12	N/A	S	661634	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS12	N/A	S	661634	bc	Loss on ignition of soil @ 450°C	L047-PL	c
WS12	N/A	S	661634	bc	PCB's By GC-MS in soil	L027B	bc
WS12	N/A	S	661634	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	bc
WS12	N/A	S	661634	bc	Total organic carbon in soil	L023B	c
WS12	N/A	S	661634	bc	Total petroleum hydrocarbons by GC-FID in soil	L076B	bc
WS12	N/A	S	661634	bc	pH at 20°C in soil	L005B	c
WS16	N/A	2	661635	bc	Two stage WAC leachate preparation	L043B	b
WS16	N/A	S	661635	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS16	N/A	S	661635	bc	Loss on ignition of soil @ 450°C	L047-PL	c
WS16	N/A	S	661635	bc	PCB's By GC-MS in soil	L027B	bc
WS16	N/A	S	661635	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	bc
WS16	N/A	S	661635	bc	Total organic carbon in soil	L023B	c
WS16	N/A	S	661635	bc	Total petroleum hydrocarbons by GC-FID in soil	L076B	bc
WS16	N/A	S	661635	bc	pH at 20°C in soil	L005B	c
WS4	N/A	2	661632	bc	Two stage WAC leachate preparation	L043B	b
WS4	N/A	S	661632	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS4	N/A	S	661632	bc	Loss on ignition of soil @ 450°C	L047-PL	c
WS4	N/A	S	661632	bc	PCB's By GC-MS in soil	L027B	bc
WS4	N/A	S	661632	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	bc
WS4	N/A	S	661632	bc	Total organic carbon in soil	L023B	c
WS4	N/A	S	661632	bc	Total petroleum hydrocarbons by GC-FID in soil	L076B	bc
WS4	N/A	S	661632	bc	pH at 20°C in soil	L005B	c
WS7	N/A	2	661633	bc	Two stage WAC leachate preparation	L043B	b
WS7	N/A	S	661633	bc	BTEX and/or Volatile organic compounds in soil	L073B	bc
WS7	N/A	S	661633	bc	Loss on ignition of soil @ 450°C	L047-PL	c
WS7	N/A	S	661633	bc	PCB's By GC-MS in soil	L027B	bc
WS7	N/A	S	661633	bc	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	bc
WS7	N/A	S	661633	bc	Total organic carbon in soil	L023B	c
WS7	N/A	S	661633	bc	Total petroleum hydrocarbons by GC-FID in soil	L076B	bc
WS7	N/A	S	661633	bc	pH at 20°C in soil	L005B	c

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

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



Client: Enzygo Geoenvironmental Ltd

Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Contact: Matt Ward

Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: CRM.1668.044

Job Number: 25-045775-1

Date Sampled: 31/07/2025

Date Received: 12/08/2025

Date Tested: 19/08/2025

Sampled By: Not Given

Test Results:

Laboratory Reference: 661637

Hole No.: WS3

Sample Reference: Not Given

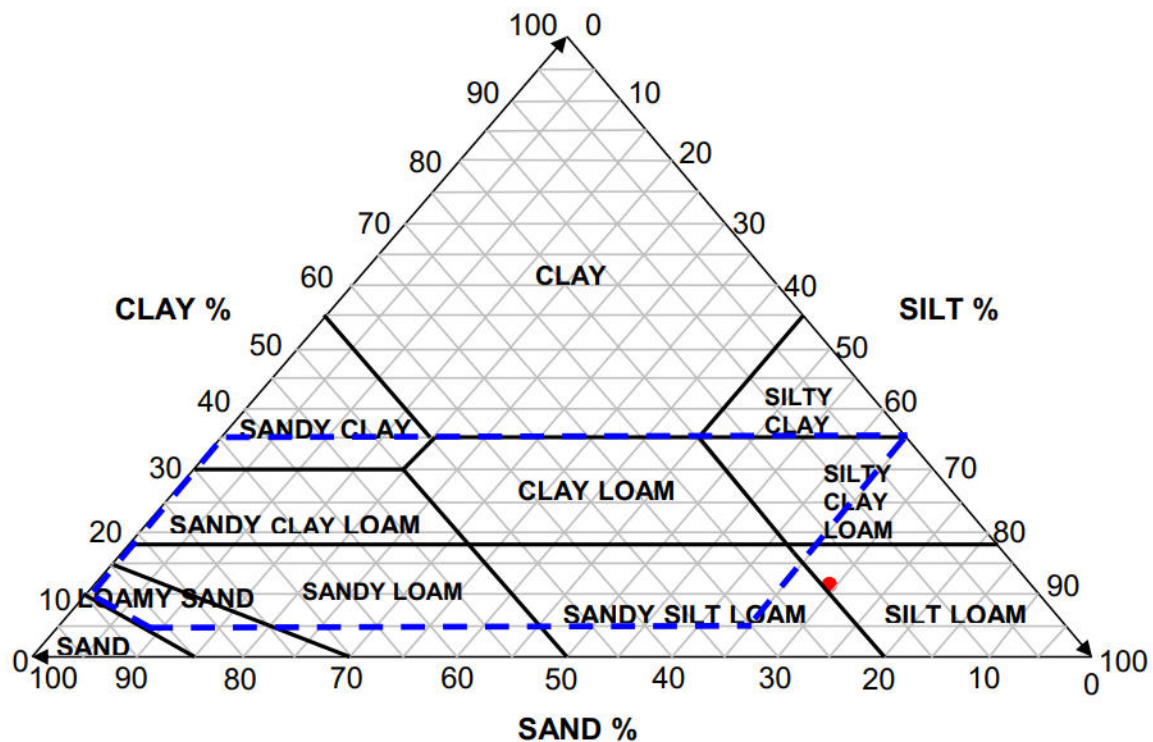
Sample Description: SILT LOAM

Depth Top [m]: 0.30

Depth Base [m]: Not Given

Sample Type: ES

Soil Texture Triangle



Sample Proportion	% dry mass
Sand	19.5
Silt	67.8
Clay	12.7

Texture within acceptable area (Y/N)

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Enzygo Geoenvironmental Ltd
The Byre
Woodend Lane
Cromhall
Gloucestershire
GL12 8AA

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

e: matt.ward@enzygo.com

Analytical Report Number : 25-045775

Project / Site name:	Wandleys Lane, Fontwell, Arundel, BN18 0QR	Samples received on:	08/08/2025
Your job number:	CRM.1668.044	Samples instructed on/ Analysis started on:	11/08/2025
Your order number:	CRM.1668.044	Analysis completed by:	20/08/2025
Report Issue Number:	1	Report issued on:	21/08/2025
Samples Analysed:	4 soil samples		

Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting
air - once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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.

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

Certificate of Analysis									
BS 3882:2015 Specification For Topsoil									
	Fail BS 3882							client	
Report No:	25-045775						Enzygo Geoenvironmental Ltd		
Location	Wandleys Lane, Fontwell, Arundel, BN18 0QR								
Lab Reference (Sample Number)	661637								
Sampling Date	31/07/2025								
Sample ID	WS3								
Depth (m)	0.30			Compliant with range (Y/N)					
		unit	Result	Multi-P	Acid	Calc	Low-F	Low-F(a)	Low-F(c)
Soil texture	<2mm fraction	%m/m	SILT LOAM	N	N	N	N	N	N
Maximum coarse fragment content:									
	>2mm	%m/m	22.00	Y	Y	Y	Y	Y	Y
	>20mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	>50mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
Mass loss on ignition		%	2.40						
	Clay 5-20%		Y	N	N	N	Y	Y	Y
	Clay 20-35%		-	-	-	-	-	-	-
Soil pH:		pH	6.20	Y	N	N	Y	N	N
Carbonate:		%m/m	2.90	-	-	Y	-	-	Y
Available plant nutrients	Nitrogen	%m/m	0.07	N	N	N	-	-	-
	Extractable Phosphate (as P)	mg/l	2.20	N	N	N	Y	Y	Y
	Extractable Potassium	mg/l	230.00	Y	Y	Y	-	-	-
	Extractable Magnesium	mg/l	72.00	Y	Y	Y	-	-	-
Carbon: Nitrogen Ratio:		:1	21.22	N	N	N	Y	Y	N
Conductivity		us/cm	2300.00	Y	-	-	-	-	-
Phytotoxic contaminants:	** Total Zinc	mg/kg	40.00	Y	Y	Y	Y	Y	Y
	** Total Copper	mg/kg	8.90	Y	Y	Y	Y	Y	Y
	** Total Nickel	mg/kg	16.00	Y	Y	Y	Y	Y	Y
Visible contaminants:	>2mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Plastics	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Sharps	no. in 1 kg	0.00	Y	Y	Y	Y	Y	Y
Compliance:				Fail	Fail	Fail	Fail	Fail	Fail
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation									

** = MCERTS accredited

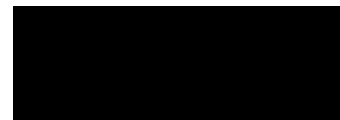
i2 Analytical
7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Certificate of Analysis									
BS 3882:2015 Specification For Topsoil									
	Fail BS 3882							client	
Report No:	25-045775						Enzygo Geoenvironmental Ltd		
Location	Wandleys Lane, Fontwell, Arundel, BN18 0QR								
Lab Reference (Sample Number)	661638								
Sampling Date	31/07/2025								
Sample ID	WS11								
Depth (m)	0.30			Compliant with range (Y/N)					
		unit	Result	Multi-P	Acid	Calc	Low-F	Low-F(a)	Low-F(c)
Soil texture	<2mm fraction	%m/m	SILT LOAM	N	N	N	N	N	N
Maximum coarse fragment content:	>2mm	%m/m	34.00	N	N	N	N	N	N
	>20mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	>50mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
Mass loss on ignition		%	3.50						
	Clay 5-20%		Y	Y	Y	Y	Y	Y	Y
	Clay 20-35%		-	-	-	-	-	-	-
Soil pH:		pH	6.10	Y	N	N	Y	N	N
Carbonate:		%m/m	2.80	-	-	Y	-	-	Y
Available plant nutrients	Nitrogen	%m/m	0.11	N	N	N	-	-	-
	Extractable Phosphate (as P)	mg/l	8.50	N	N	N	Y	Y	Y
	Extractable Potassium	mg/l	44.60	N	N	N	-	-	-
	Extractable Magnesium	mg/l	72.00	Y	Y	Y	-	-	-
Carbon: Nitrogen Ratio:		:1	18.17	Y	Y	Y	Y	Y	Y
Conductivity		us/cm	2000.00	Y	-	-	-	-	-
Phytotoxic contaminants:	** Total Zinc	mg/kg	46.00	Y	Y	Y	Y	Y	Y
	** Total Copper	mg/kg	12.00	Y	Y	Y	Y	Y	Y
	** Total Nickel	mg/kg	14.00	Y	Y	Y	Y	Y	Y
Visible contaminants:	>2mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Plastics	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Sharps	no. in 1 kg	0.00	Y	Y	Y	Y	Y	Y
Compliancy:				Fail	Fail	Fail	Fail	Fail	Fail
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation									

** = MCERTS accredited



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



Certificate of Analysis									
BS 3882:2015 Specification For Topsoil									
	Fail BS 3882						client		
Report No:	25-045775					Enzygo Geoenvironmental Ltd			
Location	Wandleys Lane, Fontwell, Arundel, BN18 0QR								
Lab Reference (Sample Number)	661639								
Sampling Date	31/07/2025								
Sample ID	WS17								
Depth (m)	0.30			Compliant with range (Y/N)					
		unit	Result	Multi-P	Acid	Calc	Low-F	Low-F(a)	Low-F(c)
Soil texture	<2mm fraction	%m/m	SANDY SILT LOAM	N	N	N	N	N	N
Maximum coarse fragment content:	>2mm	%m/m	37.00	N	N	N	N	N	N
	>20mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	>50mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
Mass loss on ignition		%	4.30						
	Clay 5-20%		Y	Y	Y	Y	Y	Y	Y
	Clay 20-35%		-	-	-	-	-	-	-
Soil pH:		pH	6.40	Y	N	N	Y	N	N
Carbonate:		%m/m	3.60	-	-	Y	-	-	Y
Available plant nutrients	Nitrogen	%m/m	0.16	Y	Y	Y	-	-	-
	Extractable Phosphate (as P)	mg/l	7.20	N	N	N	Y	Y	Y
	Extractable Potassium	mg/l	44.00	N	N	N	-	-	-
	Extractable Magnesium	mg/l	80.00	Y	Y	Y	-	-	-
Carbon: Nitrogen Ratio:		:1	16.30	Y	Y	Y	Y	Y	Y
Conductivity		us/cm	1900.00	Y	-	-	-	-	-
Phytotoxic contaminants:	** Total Zinc	mg/kg	51.00	Y	Y	Y	Y	Y	Y
	** Total Copper	mg/kg	10.00	Y	Y	Y	Y	Y	Y
	** Total Nickel	mg/kg	16.00	Y	Y	Y	Y	Y	Y
Visible contaminants:	>2mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Plastics	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Sharps	no. in 1 kg	0.00	Y	Y	Y	Y	Y	Y
Compliance:				Fail	Fail	Fail	Fail	Fail	Fail
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation									

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

Certificate of Analysis									
BS 3882:2015 Specification For Topsoil									
	Fail BS 3882						client		
Report No:	25-045775						Enzygo Geoenvironmental Ltd		
Location	Wandleys Lane, Fontwell, Arundel, BN18 0QR								
Lab Reference (Sample Number)	661640								
Sampling Date	31/07/2025								
Sample ID	WS14								
Depth (m)	0.30			Compliant with range (Y/N)					
		unit	Result	Multi-P	Acid	Calc	Low-F	Low-F(a)	Low-F(c)
Soil texture	<2mm fraction	%m/m	SANDY SILT LOAM	Y	Y	Y	Y	Y	Y
Maximum coarse fragment content:	>2mm	%m/m	49.00	N	N	N	N	N	N
	>20mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	>50mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
Mass loss on ignition		%	3.50						
	Clay 5-20%		Y	Y	Y	Y	Y	Y	Y
	Clay 20-35%		-	-	-	-	-	-	-
Soil pH:		pH	6.00	Y	N	N	Y	N	N
Carbonate:		%m/m	3.60	-	-	Y	-	-	Y
Available plant nutrients	Nitrogen	%m/m	0.14	N	N	N	-	-	-
	Extractable Phosphate (as P)	mg/l	13.00	N	N	N	Y	Y	Y
	Extractable Potassium	mg/l	41.00	N	N	N	-	-	-
	Extractable Magnesium	mg/l	35.00	N	N	N	-	-	-
Carbon: Nitrogen Ratio:		:1	14.81	Y	Y	Y	Y	Y	Y
Conductivity		us/cm	2000.00	Y	-	-	-	-	-
Phytotoxic contaminants:	** Total Zinc	mg/kg	43.00	Y	Y	Y	Y	Y	Y
	** Total Copper	mg/kg	12.00	Y	Y	Y	Y	Y	Y
	** Total Nickel	mg/kg	12.00	Y	Y	Y	Y	Y	Y
Visible contaminants:	>2mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Plastics	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Sharps	no. in 1 kg	0.00	Y	Y	Y	Y	Y	Y
Compliance:				Fail	Fail	Fail	Fail	Fail	Fail
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation									

** = MCERTS accredited

Analytical Report Number : 25-045775

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
661637	WS3	None Supplied	0.3	Brown sand with gravel
661638	WS11	None Supplied	0.3	Brown clay and sand with vegetation and stones
661639	WS17	None Supplied	0.3	Brown sand with gravel and vegetation
661640	WS14	None Supplied	0.3	Brown loam and clay with vegetation and stones

Analytical Report Number : 25-045775

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Coarse Fragment and Contaminant Analysis	Determination of >2mm contaminants	BS3882:2007 & BS8601:2013 & PAS 100:2005	L019B	D	NONE
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Conductivity (BS 3882/BS 8601)	Determination of the conductivity of soil in accordance with BS 3882:2007 methodology	BS 3882:2007 & BS 8601:2013	L031B	D	NONE
Carbonate (Topsoil - BS 3882)	Determination of Carbonate as per BS 3882:2015	Method based on BS 3882:2015	L034-PL	D	NONE
Extractable/Available Metals (BS 3882/BS 8601)	Determination of the extractable metals in soil, in accordance with BS 3882:2007 methodology	BS3882:2007 & BS8601:2013	L038B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Carbon to Nitrogen Ratio (Topsoil - BS3882:2015)	Carbon to Nitrogen ratio (:1) calculated using Loss on Ignition	BS3882:2015	L047-PL/L087B	W	NONE
Mass loss on ignition (Topsoil - BS 3882)	Determination of Loss on Ignition as per BS 3882:2015	Method based on BS 3882:2015	L047-PL	D	NONE
Phosphorus as PO ₄ (BS 3882/BS 8601)	Determination of the extractable phosphorus in soil, in accordance with BS 3882:2007 methodology	Method based on BS 3882:2015 & BS 8601:2013	L048B	D	NONE
Kjeldahl nitrogen in soil	Determination of total nitrogen using the Kjeldahl-digestion method and ion selective electrode	In-house method based on BS 7755-3.7:1995	L087B	D	NONE
pH (BS 3882/BS 8601)	Determination of the pH of soil in accordance with BS 3882:2007 methodology	BS 3882:2007 & BS 8601:2013	L099-PL	D	NONE
Topsoil (BS 3882:2015)	Specification for topsoil	BS 3882:2015	PL		NONE
Textural Classification Diagram (BS 3882:2015)	BS 3882:2015	BS 3882:2015	PL		NONE
Geotechnical Testing	See attached geotechnical report	See attached geotechnical report	PL		NONE

Analytical Report Number : 25-045775

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Analytical Report Number : 25-045775

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS11	N/A	S	661638	c	Conductivity (BS 3882/BS 8601)	L031B	c
WS11	N/A	S	661638	c	Extractable/Available Metals (BS 3882/BS 8601)	L038B	c
WS11	N/A	S	661638	c	Kjeldahl nitrogen in soil	L087B	c
WS11	N/A	S	661638	c	Mass loss on ignition (Topsoil - BS 3882)	L047-PL	c
WS11	N/A	S	661638	c	Metals in soil by ICP-OES	L038B	c
WS11	N/A	S	661638	c	pH (BS 3882/BS 8601)	L099-PL	c
WS14	N/A	S	661640	c	Conductivity (BS 3882/BS 8601)	L031B	c
WS14	N/A	S	661640	c	Extractable/Available Metals (BS 3882/BS 8601)	L038B	c
WS14	N/A	S	661640	c	Kjeldahl nitrogen in soil	L087B	c
WS14	N/A	S	661640	c	Mass loss on ignition (Topsoil - BS 3882)	L047-PL	c
WS14	N/A	S	661640	c	Metals in soil by ICP-OES	L038B	c
WS14	N/A	S	661640	c	pH (BS 3882/BS 8601)	L099-PL	c
WS17	N/A	S	661639	c	Conductivity (BS 3882/BS 8601)	L031B	c
WS17	N/A	S	661639	c	Extractable/Available Metals (BS 3882/BS 8601)	L038B	c
WS17	N/A	S	661639	c	Kjeldahl nitrogen in soil	L087B	c
WS17	N/A	S	661639	c	Mass loss on ignition (Topsoil - BS 3882)	L047-PL	c
WS17	N/A	S	661639	c	Metals in soil by ICP-OES	L038B	c
WS17	N/A	S	661639	c	pH (BS 3882/BS 8601)	L099-PL	c
WS3	N/A	S	661637	c	Conductivity (BS 3882/BS 8601)	L031B	c
WS3	N/A	S	661637	c	Extractable/Available Metals (BS 3882/BS 8601)	L038B	c
WS3	N/A	S	661637	c	Kjeldahl nitrogen in soil	L087B	c
WS3	N/A	S	661637	c	Mass loss on ignition (Topsoil - BS 3882)	L047-PL	c
WS3	N/A	S	661637	c	Metals in soil by ICP-OES	L038B	c
WS3	N/A	S	661637	c	pH (BS 3882/BS 8601)	L099-PL	c

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

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



Client: Enzygo Geoenvironmental Ltd

Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Contact: Matt Ward

Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: CRM.1668.044

Job Number: 25-045905-1

Date Sampled: 30/07/2025

Date Received: 11/08/2025

Date Tested: 20/08/2025

Sampled By: Not Given

Test Results:

Laboratory Reference: 662039

Hole No.: WS9

Sample Reference: Not Given

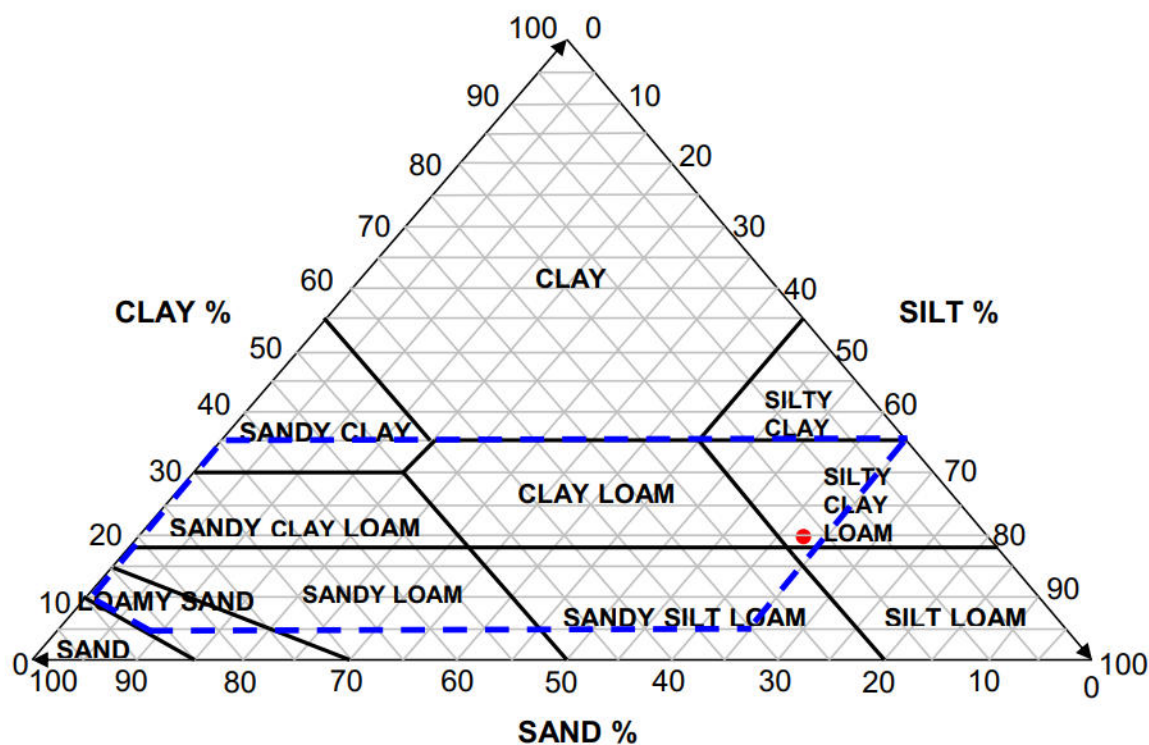
Sample Description: SILTY CLAY LOAM

Depth Top [m]: 0.30

Depth Base [m]: Not Given

Sample Type: D

Soil Texture Triangle



Sample Proportion	% dry mass
Sand	17.9
Silt	61.2
Clay	20.9

Texture within acceptable area (Y/N)

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:



Katarzyna Banys
Reporting Specialist
for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

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



Client: Enzygo Geoenvironmental Ltd

Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Contact: Matt Ward

Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: CRM.1668.044

Job Number: 25-045775-1

Date Sampled: 31/07/2025

Date Received: 12/08/2025

Date Tested: 19/08/2025

Sampled By: Not Given

Test Results:

Laboratory Reference: 661638

Hole No.: WS11

Sample Reference: Not Given

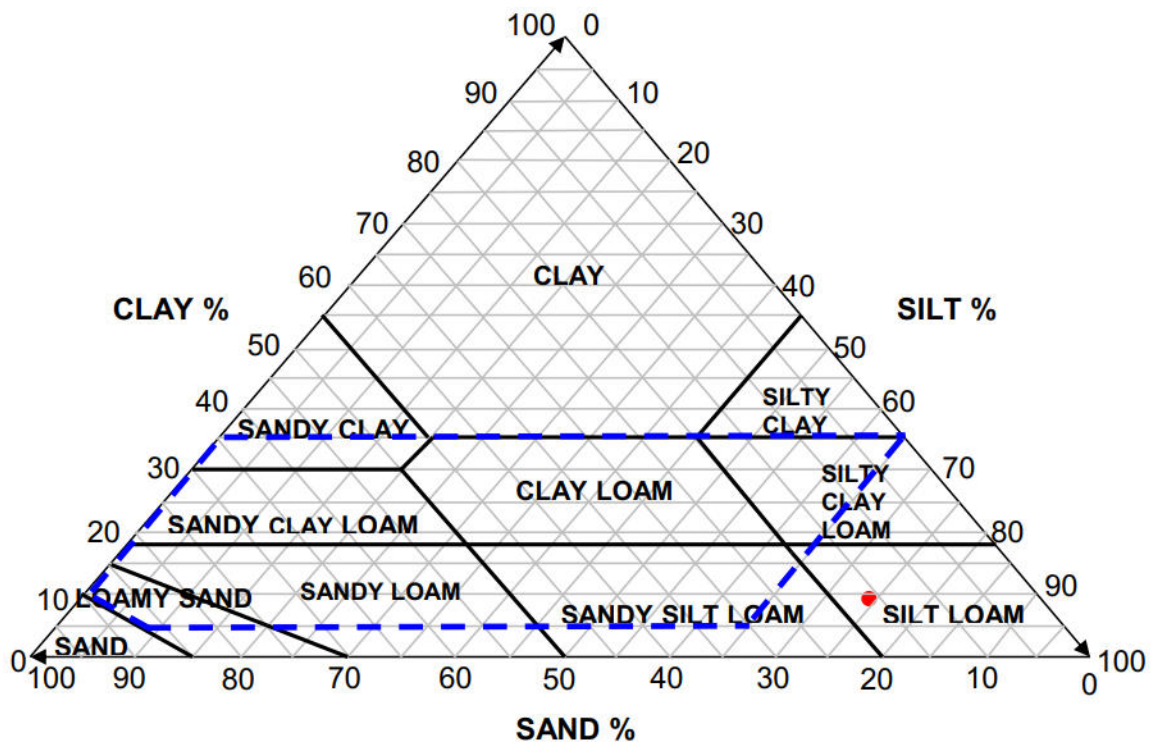
Sample Description: SILT LOAM

Depth Top [m]: 0.30

Depth Base [m]: Not Given

Sample Type: D

Soil Texture Triangle



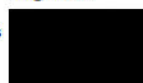
Sample Proportion	% dry mass
Sand	16.7
Silt	72.9
Clay	10.4

Texture within acceptable area (Y/N)

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:



Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Page 1 of 1

Date Reported: 21/08/2025

GF 286.11

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

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



Client: Enzygo Geoenvironmental Ltd

Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Contact: Matt Ward

Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: CRM.1668.044

Job Number: 25-045775-1

Date Sampled: 31/07/2025

Date Received: 12/08/2025

Date Tested: 19/08/2025

Sampled By: Not Given

Test Results:

Laboratory Reference: 661639

Hole No.: WS17

Sample Reference: Not Given

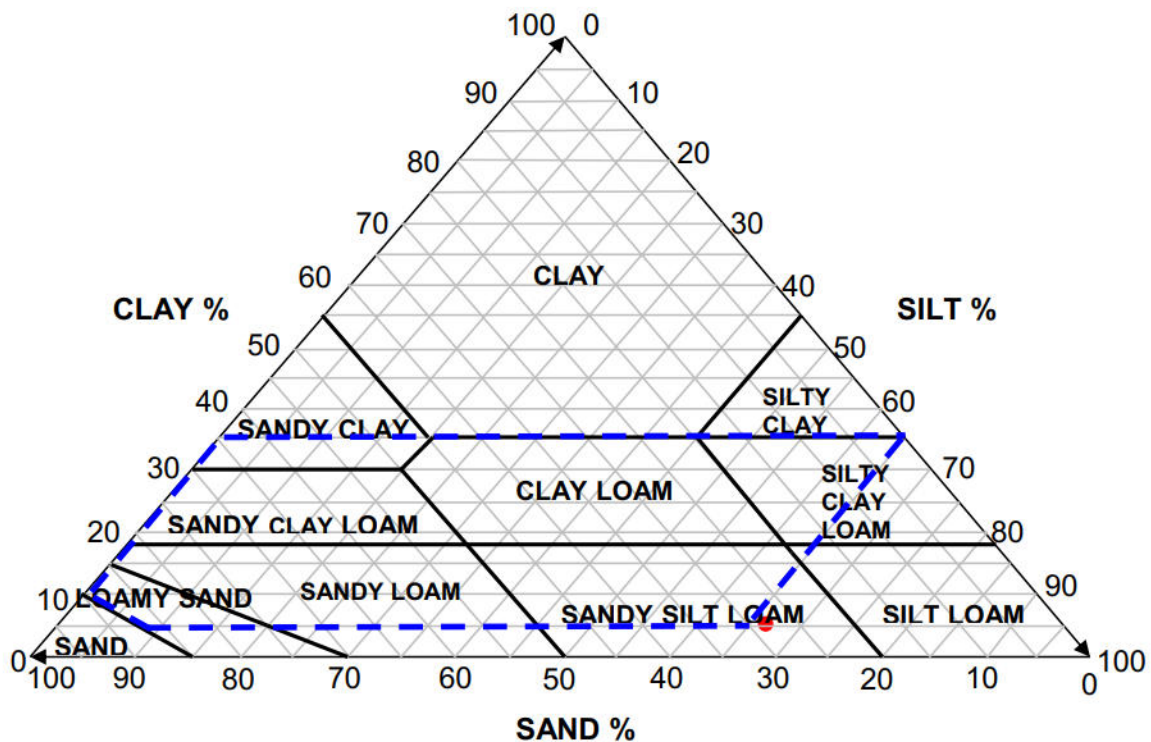
Sample Description: SANDY SILT LOAM

Depth Top [m]: 0.30

Depth Base [m]: Not Given

Sample Type: D

Soil Texture Triangle



Sample Proportion	% dry mass
Sand	28.5
Silt	65.2
Clay	6.3

Texture within acceptable area (Y/N) ☒

Remarks:

Katarzyna Koziel
Geotechnical Reporting Team Leader

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

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



Client: Enzygo Geoenvironmental Ltd
Client Address: The Byre, Woodend Lane,
Cromhall, Gloucestershire,
GL12 8AA

Contact: Matt Ward
Site Address: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

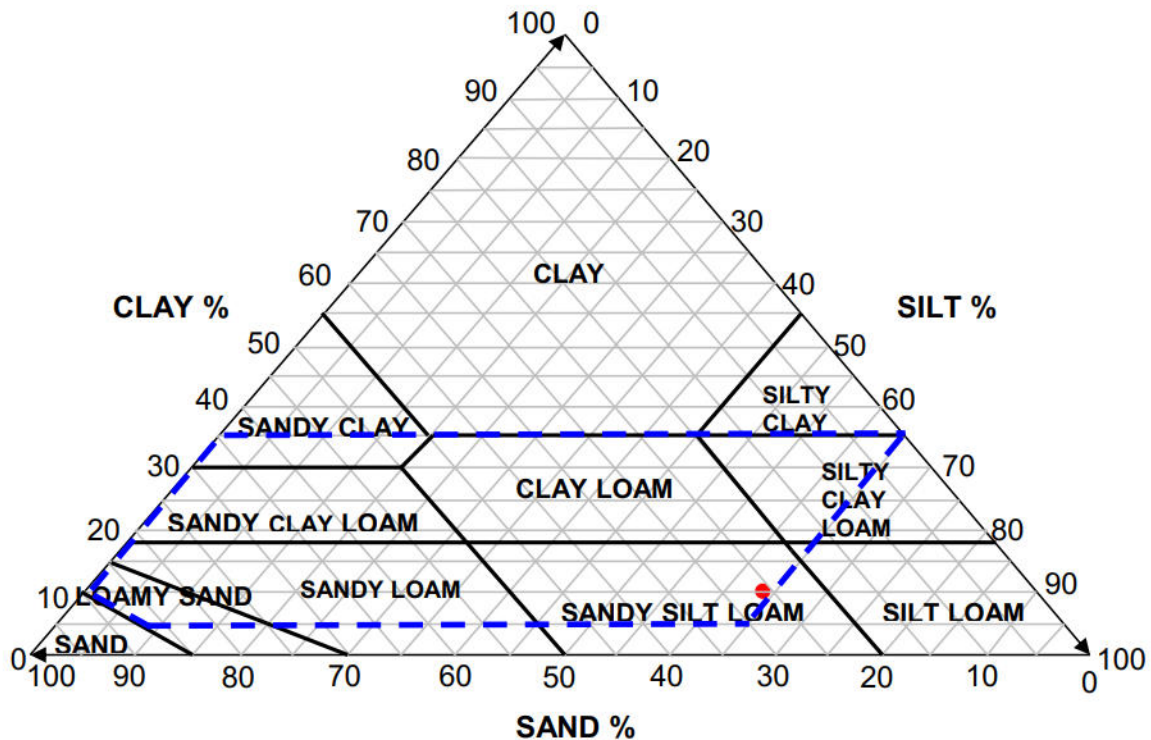
Client Reference: CRM.1668.044
Job Number: 25-045775-1
Date Sampled: 31/07/2025
Date Received: 12/08/2025
Date Tested: 19/08/2025
Sampled By: Not Given

Test Results:

Laboratory Reference: 661640
Hole No.: WS14
Sample Reference: Not Given
Sample Description: SANDY SILT LOAM

Depth Top [m]: 0.30
Depth Base [m]: Not Given
Sample Type: D

Soil Texture Triangle



Sample Proportion	% dry mass
Sand	26.3
Silt	62.4
Clay	11.3

Texture within acceptable area (Y/N)

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:



Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Enzygo Geoenvironmental Ltd
The Byre
Woodend Lane
Cromhall
Gloucestershire
GL12 8AA

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

e: matt.ward@enzygo.com

Analytical Report Number : 25-045905

Project / Site name:	Wandleys Lane, Fontwell, Arundel, BN18 0QR	Samples received on:	08/08/2025
Your job number:	CRM.1668.044	Samples instructed on/ Analysis started on:	12/08/2025
Your order number:	CRM.1668.044	Analysis completed by:	21/08/2025
Report Issue Number:	1	Report issued on:	21/08/2025
Samples Analysed:	1 soil sample		

Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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.

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

Certificate of Analysis									
BS 3882:2015 Specification For Topsoil									
	Fail BS 3882							client	
Report No:	25-045905						Enzygo Geoenvironmental Ltd		
Location	Wandleys Lane, Fontwell, Arundel, BN18 0QR								
Lab Reference (Sample Number)	662039								
Sampling Date	30/07/2025								
Sample ID	WS9								
Depth (m)	0.30			Compliant with range (Y/N)					
		unit	Result	Multi-P	Acid	Calc	Low-F	Low-F(a)	Low-F(c)
Soil texture	<2mm fraction	%m/m	SILTY CLAY LOAM	Y	Y	Y	Y	Y	Y
Maximum coarse fragment content:	>2mm	%m/m	49.00	N	N	N	N	N	N
	>20mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	>50mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
Mass loss on ignition		%	4.00						
	Clay 5-20%		-	-	-	-	-	-	-
	Clay 20-35%		Y	N	N	N	Y	Y	Y
Soil pH:		pH	5.50	Y	Y	N	Y	Y	N
Carbonate:		%m/m	2.70	-	-	Y	-	-	Y
Available plant nutrients	Nitrogen	%m/m	0.13	N	N	N	-	-	-
	Extractable Phosphate (as P)	mg/l	4.30	N	N	N	Y	Y	Y
	Extractable Potassium	mg/l	39.80	N	N	N	-	-	-
	Extractable Magnesium	mg/l	68.00	Y	Y	Y	-	-	-
Carbon: Nitrogen Ratio:		:1	18.21	Y	Y	Y	Y	Y	Y
Conductivity		us/cm	1500.00	Y	-	-	-	-	-
Phytotoxic contaminants:	** Total Zinc	mg/kg	51.00	Y	Y	Y	Y	Y	Y
	** Total Copper	mg/kg	11.00	Y	Y	Y	Y	Y	Y
	** Total Nickel	mg/kg	14.00	Y	Y	Y	Y	Y	Y
Visible contaminants:	>2mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Plastics	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Sharps	no. in 1 kg	0.00	Y	Y	Y	Y	Y	Y
Compliance:				Fail	Fail	Fail	Fail	Fail	Fail
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation									

** = MCERTS accredited



Analytical Report Number : 25-045905

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
662039	WS9	None Supplied	0.3	Brown sandy loam with vegetation and stones

Analytical Report Number : 25-045905

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Coarse Fragment and Contaminant Analysis	Determination of >2mm contaminants	BS3882:2007 & BS8601:2013 & PAS 100:2005	L019B	D	NONE
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Conductivity (BS 3882/BS 8601)	Determination of the conductivity of soil in accordance with BS 3882:2007 methodology	BS 3882:2007 & BS 8601:2013	L031B	D	NONE
Carbonate (Topsoil - BS 3882)	Determination of Carbonate as per BS 3882:2015	Method based on BS 3882:2015	L034-PL	D	NONE
Extractable/Available Metals (BS 3882/BS 8601)	Determination of the extractable metals in soil, in accordance with BS 3882:2007 methodology	BS3882:2007 & BS8601:2013	L038B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Carbon to Nitrogen Ratio (Topsoil - BS3882:2015)	Carbon to Nitrogen ratio (:1) calculated using Loss on Ignition	BS3882:2015	L047-PL/L087B	W	NONE
Mass loss on ignition (Topsoil - BS 3882)	Determination of Loss on Ignition as per BS 3882:2015	Method based on BS 3882:2015	L047-PL	D	NONE
Phosphorus as PO ₄ (BS 3882/BS 8601)	Determination of the extractable phosphorus in soil, in accordance with BS 3882:2007 methodology	Method based on BS 3882:2015 & BS 8601:2013	L048B	D	NONE
Kjeldahl nitrogen in soil	Determination of total nitrogen using the Kjeldahl-digestion method and ion selective electrode	In-house method based on BS 7755-3.7:1995	L087B	D	NONE
pH (BS 3882/BS 8601)	Determination of the pH of soil in accordance with BS 3882:2007 methodology	BS 3882:2007 & BS 8601:2013	L099-PL	D	NONE
Topsoil (BS 3882:2015)	Specification for topsoil	BS 3882:2015	PL		NONE
Textural Classification Diagram (BS 3882:2015)	BS 3882:2015	BS 3882:2015	PL		NONE
Geotechnical Testing	See attached geotechnical report	See attached geotechnical report	PL		NONE

Analytical Report Number : 25-045905

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Analytical Report Number : 25-045905

Project / Site name: Wandleys Lane, Fontwell, Arundel, BN18 0QR

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container/Insufficient material provided c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
WS9	N/A	S	662039	c	Conductivity (BS 3882/BS 8601)	L031B	c
WS9	N/A	S	662039	c	Extractable/Available Metals (BS 3882/BS 8601)	L038B	c
WS9	N/A	S	662039	c	Kjeldahl nitrogen in soil	L087B	c
WS9	N/A	S	662039	c	Mass loss on ignition (Topsoil - BS 3882)	L047-PL	c
WS9	N/A	S	662039	c	Metals in soil by ICP-OES	L038B	c
WS9	N/A	S	662039	c	Phosphorus as PO ₄ (BS 3882/BS 8601)	L048B	c
WS9	N/A	S	662039	c	pH (BS 3882/BS 8601)	L099-PL	c

Appendix 5 – Monitoring Results

Wandleys Lane, Arundel
CRM.1668.044

1 of 6 Date 27.08.25 RK

Atmospheric pressure (mb)	Borehole	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Flow (L/hr)	GW depth (m)	GSV (l/hr)	
							Methane	Carbon Dioxide
1004	WS01	0.1	1.1	19.6	0.1	4.55 (D)	0.0001	0.0011
1004	WS06	-	-	-	-	-	-	-
1004	WS11	0.1	1.3	19.5	0.1	3.31	0.0001	0.0013
1004	WS13	-	-	-	-	-	-	-
1004	WS15	0.1	0.9	20	0.1	2.33	0.0001	0.0009

2 of 6 Date 04.09.25 RK

Atmospheric pressure (mb)	Borehole	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Flow (L/hr)	GW depth (m)	GSV (l/hr)	
							Methane	Carbon Dioxide
1006	WS01	0.1	1.8	17.7	0.1	3.96	0.0001	0.0018
1006	WS06	-	-	-	-	-	-	-
1007	WS11	0.1	1.5	19.1	0.1	3.26	0.0001	0.0015
1007	WS13	-	-	-	-	-	-	-
1007	WS15	0.1	0.7	19.3	0.1	1.94	0.0001	0.0007

3 of 6 Date 10.09.25 RK

Atmospheric pressure (mb)	Borehole	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Flow (L/hr)	GW depth (m)	GSV (l/hr)	
							Methane	Carbon Dioxide
1001	WS01	0.1	0.1	15.4	0.1	3.77	0.0001	0.0001
1000	WS06	0.1	1.3	14.7	0.1	3.37	0.0001	0.0013
1002	WS11	0.1	1.6	14.4	0.1	3.3	0.0001	0.0016
1003	WS13	0.1	1.8	14	0.1	4.16	0.0001	0.0018
1001	WS15	0.1	1.5	14.7	0.1	1.98	0.0001	0.0015

4 of 6 Date 25.09.25 NM

Atmospheric pressure (mb)	Borehole	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Flow (L/hr)	GW depth (m)	GSV (l/hr)	
							Methane	Carbon Dioxide
1022	WS01	0.1	0.1	20.3	0.1	3.26	0.0001	0.0001
	WS06	-	-	-	-	-	-	-
	WS11	-	-	-	-	-	-	-
1019	WS13	0.1	2	18	0.1	3.86	0.0001	0.002
	WS15	-	-	-	-	-	-	-

5 of 6 Date 07.10.25 RK

Atmospheric pressure (mb)	Borehole	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Flow (L/hr)	GW depth (m)	GSV (l/hr)	
							Methane	Carbon Dioxide
1023	WS01	0.1	0.2	20.3	0.1	3.28	0.0001	0.0002
1023	WS06	0.1	2.1	18.6	0.1	2.96	0.0001	0.0021
1023	WS11	0.1	1.2	19.3	0.1	3.03	0.0001	0.0012
1024	WS13	0.1	2.5	17.4	0.1	3.8	0.0001	0.0025
1023	WS15	0.1	1.7	18.8	0.1	1.84	0.0001	0.0017

6 of 6 Date 15.10.25 RK

Atmospheric pressure (mb)	Borehole	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Flow (L/hr)	GW depth (m)	GSV (l/hr)	
							Methane	Carbon Dioxide
1026	WS01	0.1	1.5	19.4	0.1	3.37	0.0001	0.0015
1026	WS06	0.1	2.1	18.6	0.1	3.01	0.0001	0.0021
1026	WS11	0.1	1.4	19.1	0.1	3.06	0.0001	0.0014
1026	WS13	0.1	2.7	17.7	0.1	3.82	0.0001	0.0027
1026	WS15	0.1	1.9	19	0.1	1.87	0.0001	0.0019

Appendix 6 – Human Health Assessment Reference Values

Determinant	Units	GAC Value Residential					
		With Plant Uptake			Without Plant Uptake		
Arsenic	mg/kg	37			40		
Cadmium	mg/kg	11			85		
Chromium	mg/kg	910			910		
Chromium VI	mg/kg	6			6		
Lead	mg/kg	200			310		
Mercury	mg/kg	40			56		
Nickel	mg/kg	130			180		
Selenium	mg/kg	250			430		
Copper	mg/kg	2400			7100		
Zinc	mg/kg	3700			40000		
Cyanide	mg/kg	791			800		
SOM	%	1	2.5	6	1	2.5	6
Phenol	mg/kg	280	550	1100	750	1300	2300
Napthalene	mg/kg	2.3	5.6	13	2.3	5.6	13
Acenaphthylene	mg/kg	170	420	920	2900	4600	6000
Acenaphthene	mg/kg	210	510	1100	3000	4700	6000
Flourene	mg/kg	170	400	860	2800	3800	4500
Phenanthrene	mg/kg	95	220	440	1300	1500	1500
Anthracene	mg/kg	2400	5400	11000	31000	35000	37000
Fluoranthene	mg/kg	280	560	890	1500	1600	1600
Pyrene	mg/kg	620	1200	2000	3700	3800	3800
Benzo(a)Anthracene	mg/kg	7.2	11	13	11	14	15
Chrysene	mg/kg	15	22	27	30	31	32
Benzo(b)Flouranthene	mg/kg	2.6	3.3	3.7	3.9	4.0	4.0
Benzo(k)Flouranthene	mg/kg	77	93	100	110	110	110
Benzo(a)Pyrene	mg/kg	2.2	2.7	3.0	3.2	3.2	3.2
Indeno(123-cd)Pyrene	mg/kg	27	36	41	45	46	46
Dibenzo(a,h)Anthracene	mg/kg	0.24	0.28	0.3	0.31	0.32	0.32
Benzo(ghi)Perylene	mg/kg	320	340	350	360	360	360
TPH C ₅ -C ₆ Aliphatic	mg/kg	42	78	160	42	78	160
TPH C ₆ -C ₈ Aliphatic	mg/kg	100	230	530	100	230	530
TPH C ₈ -C ₁₀ Aliphatic	mg/kg	27	65	150	27	65	150
TPH C ₁₀ -C ₁₂ Aliphatic	mg/kg	130	330	760	130	330	770
TPH C ₁₂ -C ₁₄ Aliphatic	mg/kg	1100	2400	4300	1100	2400	4400
TPH C ₁₄ -C ₁₆ Aliphatic	mg/kg	65000	92000	110000	65000	92000	110000
TPH C ₁₆ -C ₁₈ Aliphatic	mg/kg	65000	92000	110000	65000	92000	110000
TPH C ₅ -C ₇ Aromatic	mg/kg	70	140	300	370	690	1400
TPH C ₇ -C ₉ Aromatic	mg/kg	130	290	660	860	1800	3900
TPH C ₉ -C ₁₁ Aromatic	mg/kg	34	83	190	47	110	270
TPH C ₁₁ -C ₁₃ Aromatic	mg/kg	74	180	380	250	590	1200
TPH C ₁₃ -C ₁₅ Aromatic	mg/kg	140	330	660	1800	2300	2500
TPH C ₁₅ -C ₁₇ Aromatic	mg/kg	260	540	930	1900	1900	1900
TPH C ₁₇ -C ₁₉ Aromatic	mg/kg	1100	1500	1700	1900	1900	1900
TPH C ₁₉ -C ₂₁ Aromatic	mg/kg	1100	1500	1700	1900	1900	1900
Benzene	mg/kg	0.087	0.17	0.37	0.38	0.70	1.4
Toluene	mg/kg	130	290	660	880	1900	3900
Ethylbenzene	mg/kg	47	110	260	83	190	440
Xylene	mg/kg	56	130	310	79	180	430

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Determinant	Units	GAC Value					
		Residential POS			Commercial		
Arsenic	mg/kg	79			640		
Cadmium	mg/kg	120			190		
Chromium	mg/kg	1500			8600		
Chromium VI	mg/kg	7.7			33		
Lead	mg/kg	630			2330		
Mercury	mg/kg	120			1100		
Nickel	mg/kg	230			980		
Selenium	mg/kg	1100			12000		
Copper	mg/kg	12000			68000		
Zinc	mg/kg	81000			730000		
Cyanide	mg/kg	N/A			16200		
SOM	%	1	2.5	6	1	2.5	6
Phenol	mg/kg	760	1500	3200	760	1500	3200
Napthalene	mg/kg	4900	4900	4900	190	460	1100
Acenaphtylene	mg/kg	15000	15000	15000	83000	97000	100000
Acenaphthene	mg/kg	15000	15000	15000	84000	97000	100000
Flourene	mg/kg	9900	9900	9900	63000	68000	71000
Phenanthrene	mg/kg	3100	3100	3100	22000	22000	23000
Anthracene	mg/kg	74000	74000	74000	520000	540000	540000
Fluoranthene	mg/kg	3100	3100	3100	23000	23000	23000
Pyrene	mg/kg	7400	7400	7400	54000	54000	54000
Benzo(a)Anthracene	mg/kg	29	29	29	170	170	180
Chrysene	mg/kg	57	57	57	350	350	350
Benzo(b)Flouranthene	mg/kg	7.1	7.2	7.2	44	44	45
Benzo(k)Flouranthene	mg/kg	190	190	190	1200	1200	1200
Benzo(a)Pyrene	mg/kg	5.7	5.7	5.7	35	35	36
Indeno(123-cd)Pyrene	mg/kg	82	82	82	500	510	510
Dibenzo(a,h)Anthracene	mg/kg	0.57	0.57	0.58	3.5	3.6	3.6
Benzo(ghi)Perylene	mg/kg	640	640	640	3900	4000	4000
TPH C ₅ -C ₆ Aliphatic	mg/kg	570000	590000	600000	3200	5900	12000
TPH C ₆ -C ₈ Aliphatic	mg/kg	600000	610000	620000	7800	17000	40000
TPH C ₉ -C ₁₀ Aliphatic	mg/kg	13000	13000	13000	2000	4800	11000
TPH C ₁₀ -C ₁₂ Aliphatic	mg/kg	13000	13000	13000	9700	23000	47000
TPH C ₁₂ -C ₁₆ Aliphatic	mg/kg	13000	13000	13000	59000	82000	90000
TPH C ₁₆ -C ₃₃ Aliphatic	mg/kg	250000	250000	250000	1600000	1700000	1800000
TPH C ₃₅ -C ₄₄ Aliphatic	mg/kg	250000	250000	250000	1600000	1700000	1800000
TPH C ₅ -C ₇ Aromatic	mg/kg	56000	56000	56000	26000	46000	86000
TPH C ₇ -C ₈ Aromatic	mg/kg	56000	56000	56000	56000	110000	180000
TPH C ₉ -C ₁₀ Aromatic	mg/kg	5000	5000	5000	3500	8100	17000
TPH C ₁₀ -C ₁₂ Aromatic	mg/kg	5000	5000	5000	16000	28000	34000
TPH C ₁₂ -C ₁₆ Aromatic	mg/kg	5100	5100	5000	36000	37000	38000
TPH C ₁₆ -C ₂₂ Aromatic	mg/kg	3800	3800	3800	28000	28000	28000
TPH C ₂₁ -C ₃₃ Aromatic	mg/kg	3800	3800	3800	28000	28000	28000
TPH C ₃₅ -C ₄₄ Aromatic	mg/kg	3800	3800	3800	28000	28000	28000
Benzene	mg/kg	72	72	73	27	47	90
Toluene	mg/kg	56000	56000	56000	56000	110000	180000
Ethylebenzene	mg/kg	24000	24000	25000	5700	13000	27000
Xylene	mg/kg	41000	42000	43000	5900	14000	30000

Determinant	Units	GAC Value					
		Park POS			Allotments		
Arsenic	mg/kg	170			43		
Cadmium	mg/kg	532			1.9		
Chromium	mg/kg	33000			18000		
Chromium VI	mg/kg	220			1.8		
Lead	mg/kg	1300			80		
Mercury	mg/kg	240			19		
Nickel	mg/kg	800			53		
Selenium	mg/kg	1800			88		
Copper	mg/kg	44000			520		
Zinc	mg/kg	170000			620		
Cyanide	mg/kg						
SOM	%	1	2.5	6	1	2.5	6
Phenol	mg/kg	760	1500	3200	66	140	280
Napthalene	mg/kg	1200	1900	3000	4.1	10	24
Acenaphthylene	mg/kg	29000	30000	30000	28	69	160
Acenaphthene	mg/kg	29000	30000	30000	34	85	200
Flourene	mg/kg	20000	20000	20000	27	67	160
Phenanthrene	mg/kg	6200	6200	6300	15	38	90
Anthracene	mg/kg	150000	150000	150000	380	950	2200
Fluoranthene	mg/kg	6300	6300	6400	52	130	290
Pyrene	mg/kg	15000	15000	15000	110	270	620
Benzo(a)Anthracene	mg/kg	49	56	62	2.9	6.5	13
Chrysene	mg/kg	93	110	120	4.1	9.4	19
Benzo(b)Flouranthene	mg/kg	13	15	16	0.99	2.1	3.9
Benzo(k)Flouranthene	mg/kg	370	410	440	37	75	130
Benzo(a)Pyrene	mg/kg	11	12	13	0.97	2.0	3.5
Indeno(123-cd)Pyrene	mg/kg	150	170	180	9.5	21	39
Dibenzo(a,h)Anthracene	mg/kg	1.1	1.3	1.4	0.14	0.27	0.43
Benzo(ghi)Perylene	mg/kg	1400	1500	1600	290	470	640
TPH C ₅ -C ₆ Aliphatic	mg/kg	95000	130000	180000	730	1700	3900
TPH C ₆ -C ₈ Aliphatic	mg/kg	150000	220000	320000	2300	5600	13000
TPH C ₈ -C ₁₀ Aliphatic	mg/kg	14000	18000	21000	320	770	1700
TPH C ₁₀ -C ₁₂ Aliphatic	mg/kg	21000	23000	24000	2200	4400	7300
TPH C ₁₂ -C ₁₆ Aliphatic	mg/kg	25000	25000	26000	11000	13000	13000
TPH C ₁₆ -C ₃₅ Aliphatic	mg/kg	450000	480000	490000	260000	270000	270000
TPH C ₃₅ -C ₄₄ Aliphatic	mg/kg	450000	480000	490000	260000	270000	270000
TPH C ₅ -C ₇ Aromatic	mg/kg	76000	84000	92000	13	27	57
TPH C ₇ -C ₈ Aromatic	mg/kg	87000	95000	100000	22	51	120
TPH C ₈ -C ₁₀ Aromatic	mg/kg	7200	8500	9300	8.6	21	51
TPH C ₁₀ -C ₁₂ Aromatic	mg/kg	9200	9700	10000	13	31	74
TPH C ₁₂ -C ₁₆ Aromatic	mg/kg	10000	10000	10000	23	57	130
TPH C ₁₆ -C ₂₁ Aromatic	mg/kg	7600	7700	7800	46	110	260
TPH C ₂₁ -C ₃₅ Aromatic	mg/kg	7800	7800	7900	370	820	1600
TPH C ₃₅ -C ₄₄ Aromatic	mg/kg	7800	7800	7900	370	820	1600
Benzene	mg/kg	90	100	110	0.017	0.034	0.075
Toluene	mg/kg	87000	95000	100000	22	51	120
Ethylebenzene	mg/kg	17000	22000	27000	16	39	91
Xylene	mg/kg	17000	23000	31000	28	67	160

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