

- Key:**
- Approximate position of trial pit taken from ID Geo, Exploratory Hole Location Plan.
 - Approximate position of water main taken from Engineering Constraints GW 11_3_24.
 - Approximate position of foul water sewer taken from Engineering Constraints GW 11_3_24.
 - Approximate position of combined sewer taken from Engineering Constraints GW 11_3_24.
 - Approximate position of overflow sewer taken from Engineering Constraints GW 11_3_24.
 - Approximate location of watercourse taken from Engineering Constraints GW 11_3_24.
 - Approximate position of water main taken from Yorkshire Water Plan.
 - Approximate position of gas main.
 - Approximate position of electric cable.
 - Approximate location of opencast taken from Abandonment Plan NE344_999999.
 - Approximate location of coal outcrop taken from Abandonment Plan NE344_999999.
 - Approximate position of trial pit excavated by Eastwood CE on 16-18.04.2024.
 - Approximate position of monitoring well installed by Eastwood CE on 18.04.2024.
 - Depth (m)
 - Approximate position of hand pit excavated by Eastwood CE on 29.05.2024.
 - Approximate position of former pond taken from 1892 historical map.

P02	Title updated, exploratory holes updated to suit Site Investigation & 10m easement removed.	JL	KE	31.05.2024
P01	First issue.	JL	KE	08.04.2024
REV	DESCRIPTION	SIG	CHK	DATE

AVANT HOMES

LAND OFF THURNSCOE BRIDGE LANE

EXPLORATORY HOLE LOCATION PLAN

Eastwood
CONSULTING ENGINEERS

St Andrew's House
23 Kingfield Road
Sheffield, S11 9AS

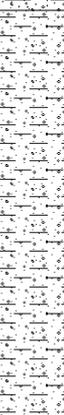
T: 0114 255 4554
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ECE PROJECT No	SCALE AT A1	STATUS	SUITABLE FOR
48926	1:1000	S0	Initial
DRAWING NUMBER			REV
48926 - ECE - XX - XX - DR - C - 0010			P02
Project	Originator	Zone	Level
			Type
			Role
			Number

Project Name Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445600.00 - 404966.00 Level: 43.20	Date 17/04/2024
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Location: Thurnscoe	Dimensions: 1.60m	Scale 1:25
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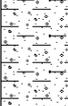
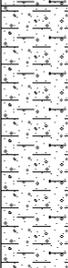
Client: Avant Homes	Depth: 2.20m	0.60m 	Logged JDO
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Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	42.90		TOPSOIL: Dark brown gravelly slightly clayey SAND. Gravel is fine to coarse angular to subangular clasts of sandstone, coal, brick and glass.
0.50	ES		0.60	42.60		Brown gravelly clayey SAND. Gravel is fine to coarse angular to subangular clasts of sandstone.
1.10 1.10	D	HVP=147				Stiff grey slightly gravelly sandy CLAY. Old land drain at 0.8m
			2.00	41.20		Extremely weak brown SANDSTONE. Recovered as angular gravel and cobbles.
			2.20	41.00		Trialpit Complete at 2.200m

Remarks: Terminated at 2.2m to conduct infiltration test. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445604.00 - 404890.00 Level: 40.70	Date 16/04/2024
Location: Thurnscoe		Dimensions: m		Scale 1:25
Client: Avant Homes		Depth: 3.00m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	40.40		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular clasts of sandstone and coal.
0.60	ES					Stiff brown and mottled grey slightly gravelly very sandy CLAY. Gravel is fine to coarse angular clasts of sandstone.
1.20	D		1.50	39.20		Stiff brownish grey slightly gravelly very sandy CLAY. Gravel is fine to coarse angular clasts of mudstone and sandstone.
2.00	D					
2.80	D		2.40	38.30		Extremely weak grey MUDSTONE recovered as angular gravel.
			3.00	37.70		Trialpit Complete at 3.000m

Remarks: Terminated due to refusal. Groundwater ingress at 2.2m. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

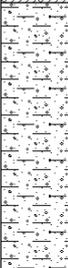
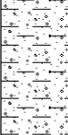
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445605.00 - 404825.00 Level: 37.50	Date 17/04/2024
Location: Thurnscoe			Dimensions: 1.60m	Scale 1:25
Client: Avant Homes			Depth: 2.30m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.35	37.15		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular to subangular clasts of sandstone.
0.80	ES					Stiff grey and mottled orange slight gravelly sandy CLAY. Gravel is angular to subrounded clasts of sandstone and ironstone nodules.
1.20 1.20	D	HVP=88				
2.10	D		2.00	35.50		Extremely weak grey MUDSTONE. recovered as angular gravel.
			2.30	35.20		Trialpit Complete at 2.300m

Remarks: Terminated at 3m to conduct infiltration test. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

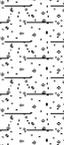
Project Name Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445557.00 - 404849.00 Level: 39.50	Date 18/04/2024
Location: Thurnscoe	Dimensions: m		Scale 1:25
Client: Avant Homes	Depth: 3.10m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.25	39.25		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone, mudstone and coal
0.50	ES					Stiff brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and mudstone.
1.20	D		1.60	37.90		Extremely weak grey MUDSTONE. Recovered as angular gravel.
2.00	D					
			3.10	36.40		Trialpit Complete at 3.100m

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

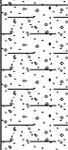
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445557.00 - 404926.00 Level: 43.70	Date 16/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: <input type="text"/> m 0.90m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	43.40		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular clasts of sandstone and coal.
0.60 0.60	D ES		0.80 0.90	42.90 42.80		Brown gravelly very clayey SAND. Gravel is fine to coarse angular clasts of sandstone.
						Extremely weak brown SANDSTONE. Recovered as angular gravel.
						Trialpit Complete at 0.900m

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

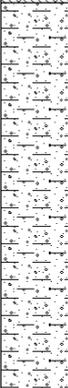
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445560.00 - 404965.00 Level: 43.40	Date 16/04/2024
Location: Thurnscoe		Dimensions: 2.00m		Scale 1:25
Client: Avant Homes		Depth: 2.00m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.15	ES		0.30	43.10		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular to subrounded clasts of brick, pottery, coal and sandstone.
0.60	ES		1.00	42.40		Brown slightly gravelly slightly clayey SAND. Gravel is fine to coarse angular clasts of sandstone. Small land drain at 0.9m square sandstone boulder at 0.6m
1.70	D		1.50	41.90		Brown to grey partially cemented slightly gravelly very clayey SAND. Recovered as angular gravel and cobbles.
			1.90	41.50		Stiff grey mottled orange slightly gravelly very sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and ironstone. Pockets of very clayey SAND throughout.
			2.00	41.40		Brown extremely weak SANDSTONE. Recovered as fine to medium gravel.
Trialpit Complete at 2.000m						

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

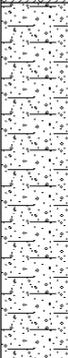
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Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: 1.90m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	41.30		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular to subrounded clasts of, coal and sandstone and occasional brick
0.80 0.80	D ES					Brown mottled grey slightly gravelly very sandy CLAY with pockets of very clayey SAND.
1.70	D		1.60	40.00		Brown extremely weak SANDSTONE. Recovered at angular gravel.
			1.90	39.70		Trialpit Complete at 1.900m

Remarks: Terminated due to refusal. Groundwater ingress at 1.8m. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

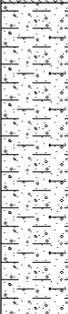
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445505.00 - 404902.00 Level: 42.20	Date 16/04/2024
Location: Thurnscoe			Dimensions: m	Scale 1:25
Client: Avant Homes			Depth: 1.50m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.25	41.95		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and mudstone.
0.70	ES		1.45	40.75		Brown very gravelly clayey SAND. Gravel is fine to coarse angular clasts of sandstone.
			1.50	40.70		Extremely weak brown SANDSTONE. Recovered as angular gravel. Trialpit Complete at 1.500m

Remarks: Terminated due to encountering a spring line leading to rapid water ingress. Rapid groundwater encountered at 1.5m. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

Project Name Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445505.00 - 404846.00 Level: 38.50	Date 18/04/2024
Location: Thurnscoe	Dimensions: m		Scale 1:25
Client: Avant Homes	Depth: 3.60m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	38.20		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone, mudstone and coal
0.70	ES					Stiff brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone, ironstone and mudstone.
1.40 1.40	D	HVP=104	1.60	36.90		Extremely weak grey MUDSTONE with low cobble content. Recovered as angular gravel. Cobbles are angular to rounded clasts of ironstone.
			3.60	34.90		Trialpit Complete at 3.600m

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

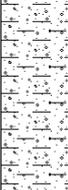
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445505.00 - 404800.00 Level: 35.20	Date 18/04/2024
Location: Thurnscoe		Dimensions: m		Scale 1:25
Client: Avant Homes		Depth: 4.10m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	34.90		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone, mudstone and coal
0.50	ES					1.20
1.20	D		2.40	31.10		
2.40	D					Trialpit Complete at 4.100m

Remarks: Terminated due to the excavator being unable to reach deeper. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

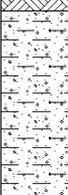
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Location: Thurnscoe		Dimensions: m		Scale 1:25
Client: Avant Homes		Depth: 3.80m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	34.80		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone, mudstone and coal
0.60	ES					Stiff brown becoming grey mottled orange slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone, ironstone and mudstone.
1.20	D		1.80	33.30		Extremely weak grey MUDSTONE with low cobble content. Recovered as angular gravel. Cobbles are subangular to rounded of ironstone.
2.50	D					
3.60	D		3.50	31.60		Extremely weak black shaley MUDSTONE recovered as angular tabular gravel and cobbles.
3.70	D		3.65	31.45		Black COAL with pyrite. Recovered as angular gravel and cobbles.
			3.80	31.30		Trialpit Complete at 3.800m

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

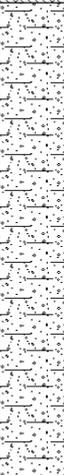
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445454.00 - 404838.00 Level: 37.70	Date 18/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: <input type="text"/> m 2.90m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.35	37.35		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular clasts of sandstone, mudstone and coal
0.60	ES					Stiff grey to grey mottled orange slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone, ironstone and mudstone.
1.00 1.00	D	HVP=89	1.70	36.00		Extremely weak grey MUDSTONE with low cobble content. Recovered as angular gravel. Cobbles are subangular to rounded of ironstone.
			2.60	35.10		Extremely weak to moderately weak brown SILTSTONE recovered as angular gravel.
			2.90	34.80		Trialpit Complete at 2.900m

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

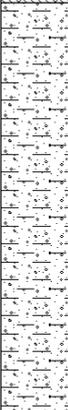
Project Name Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445459.00 - 404933.00 Level: 41.10	Date 16/04/2024
Location: Thurnscoe	Dimensions: m		Scale 1:25
Client: Avant Homes	Depth: 2.00m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	40.80		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and mudstone.
0.70	ES		1.90	39.20		Brown gravelly very clayey SAND with pockets of very sandy clay. Gravel is fine to coarse angular clasts of sandstone. Cobble of coal at 0.5m.
			2.00	39.10		Extremely weak brown SANDSTONE. Recovered as angular gravel.
Trialpit Complete at 2.000m						

Remarks: Terminated due to refusal. Groundwater ingress at 1.4m. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

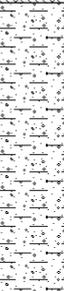
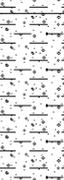
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Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: 2.30m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	41.70		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular to subrounded clasts of, coal and sandstone.
0.50 0.50	ES	HVP=99				Brown mottled grey slightly gravelly very sandy CLAY with pockets of very clayey SAND.
1.00 1.00	D	HVP=82	1.70	40.30		Brown extremely weak finely laminated SANDSTONE interlaminated with mudstone. Recovered as angular gravel.
2.00	D					Trialpit Complete at 2.300m

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

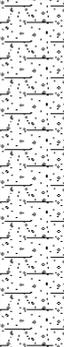
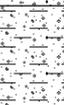
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445405.00 - 404990.00 Level: 42.90	Date 16/04/2024
Location: Thurnscoe		Dimensions: m		Scale 1:25
Client: Avant Homes		Depth: 2.10m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES	HVP=120	0.30	42.60		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone, coal, brick and pot
0.80 0.80 0.80	D ES					Stiff brown and mottled grey slightly gravelly very sandy CLAY. Gravel is fine to coarse angular clasts of sandstone. and mudstone.
1.40	D		1.30	41.60		Stiff grey slightly gravelly sandy CLAY. Gravel is fine to medium angular clasts of sandstone. pocket of coaly clay at 1.4m.
2.10	D		1.90	41.00		Grey extremely weak SANDSTONE recovered as angular gravel. occasional ironstone gravel.
			2.10	40.80		Trialpit Complete at 2.100m

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445403.00 - 404946.00 Level: 43.40	Date 16/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: 1.90m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	43.10		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular clasts of sandstone, coal and mudstone.
0.60	ES					Brown and mottled grey slightly clayey SAND with pockets of very sandy clay. Gravel is fine to coarse angular clasts of sandstone and ironstone.
1.60	D		1.50	41.90		Stiff brown and mottled grey slightly gravelly very sandy CLAY. Gravel is fine to coarse angular clasts of sandstone.
			1.85 1.90	41.55 41.50		Extremely weak brown SANDSTONE. Recovered as angular gravel. Trialpit Complete at 1.900m

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445405.00 - 404890.00 Level: 42.40	Date 18/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: 2.00m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	42.10		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular clasts of sandstone, mudstone and coal
0.90	ES		1.10	41.30		Brown slightly gravelly very clayey SAND with pockets and lenses of sandy clay. Gravel is fine to coarse angular clasts of sandstone.
1.80	D		2.00	40.40		Extremely weak brown SILTSTONE with ironstone fragments. Recovered as angular gravel.
Trialpit Complete at 2.000m						

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445406.00 - 404843.00 Level: 38.80	Date 17/04/2024
Location: Thurnscoe			Dimensions: 1.50m	Scale 1:25
Client: Avant Homes			Depth: 2.60m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	38.50		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular to subangular clasts of sandstone and coal.
0.70	ES					Stiff grey and mottled orange slight gravelly sandy CLAY. Gravel is angular to subrounded clasts of sandstone and ironstone nodules. Ironstone cobbles at 1.6m
1.20	D		1.90	36.90		Extremely weak grey MUDSTONE. recovered as angular gravel. Occasional ironstone fragments.
2.30	D					Trialpit Complete at 2.600m

Remarks: Terminated at 2.6m to conduct infiltration test. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

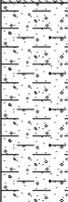
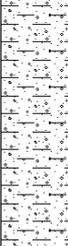
Project Name Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445405.00 - 404790.00 Level: 35.30	Date 17/04/2024
Location: Thurnscoe	Dimensions: m		Scale 1:25
Client: Avant Homes	Depth: 3.60m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	35.00		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone, mudstone and coal
0.70	ES					Stiff brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and mudstone and ironstone.
1.20	D		2.00	33.30		Extremely weak grey MUDSTONE. Recovered as angular gravel. Occasional ironstone nodules.
2.20	D					
			3.60	31.70		Trialpit Complete at 3.600m

Remarks: Terminated due to refusal. Groundwater ingress at 1.2m. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

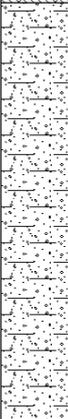
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445342.00 - 404845.00 Level: 38.50	Date 17/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: 4.20m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	38.20		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and coal
0.60	ES					Firm to stiff grey slight gravelly sandy CLAY with low cobble content. Gravel is angular to subrounded clasts of sandstone and ironstone nodules. Cobbles are rounded of ironstone.
1.00		HVP=73	1.80	36.70		Extremely weak grey MUDSTONE with low cobble content. Recovered as angular gravel. Cobbles are rounded of ironstone.
1.30 1.30	D	HVP=92				
			4.20	34.30		Trialpit Complete at 4.200m

Remarks: Terminated due to the excavator being unable to reach deeper. Groundwater ingress at 2.9m. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

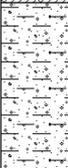
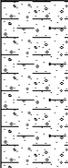
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445350.00 - 404928.00 Level: 44.10	Date 16/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: 1.90m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	43.80		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular clasts of sandstone, coal and mudstone.
0.60	ES					Brown and mottled grey slightly gravelly clayey SAND with pockets of very sandy clay. Gravel is fine to coarse angular clasts of mudstone, sandstone and ironstone.
1.80	D		1.70	42.40		Extremely weak dark grey slightly gravelly sandy MUDSTONE. Recovered as angular clasts of gravel. Occasional ironstone fragments.
1.90	D		1.85 1.90	42.25 42.20		Stiff grey gravelly sandy CLAY. Gravel is fine to coarse angular to subangular clasts of sandstone.
Trialpit Complete at 1.900m						

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

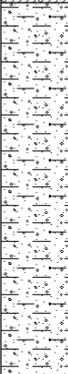
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445356.00 - 404994.00 Level: 44.20	Date 16/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: 2.10m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.25	43.95		TOPSOIL: Dark brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse angular to subrounded clasts of sandstone, mudstone, coal and brick
0.60	ES		0.80	43.40		Stiff slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone, mudstone and ironstone
1.40	D		1.40	42.80		Stiff dark grey slightly gravelly sandy CLAY. Gravel is fine clasts of mudstone and sandstone.
2.00	D		2.10	42.10		Grey extremely weak SANDSTONE. recovered as angular gravel.
Trialpit Complete at 2.100m						

Remarks: Terminated due to refusal. Groundwater ingress at 2.0m. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445305.00 - 404990.00 Level: 45.20	Date 16/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: <input type="text"/> m 2.50m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.25	44.95		TOPSOIL: Dark brown slightly gravelly slightly sandy CLAY. Gravel is fine to medium angular to subrounded clasts of sandstone, mudstone, coal and brick.
						Stiff brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular to subrounded clasts of sandstone and mudstone.
0.90	ES		1.50	43.70		Extremely weak grey MUDSTONE recovered as fine to coarse angular gravel. Occasional ironstone fragments.
1.70	D					2.00
2.30	D		2.50	42.70	Trialpit Complete at 2.500m	

Remarks: Terminated due to refusal. Groundwater ingress at 2.5m. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

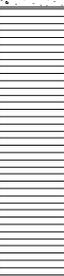
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 554305.00 - 404880.00 Level: 41.50	Date 17/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: 2.70m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	41.20		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and coal
0.60	ES		1.20	40.30		Brown gravelly slightly clayey SAND. Gravel is fine to coarse angular clasts of sandstone.
1.50	D		2.00	39.50		Extremely weak brown SILTSTONE. Recovered as angular gravel.
			2.60	38.90		Extremely weak brown MUDSTONE. Recovered as angular gravel.
			2.70	38.80		Extremely weak brown SANDSTONE. Recovered as angular gravel.
Trialpit Complete at 2.700m						

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

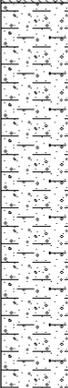
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445305.00 - 404795.00 Level: 33.20	Date 17/04/2024
Location: Thurnscoe			Dimensions: m	Scale 1:25
Client: Avant Homes			Depth: 3.10m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	32.90		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and coal
0.60	ES					Stiff grey and mottled orange slight gravelly sandy CLAY. Gravel is angular to subrounded clasts of sandstone and ironstone nodules.
1.10	D	HVP=149	2.20	31.00		Extremely weak brown and grey MUDSTONE with occasional cm sized interbeds of sandstone and siltstone. Recovered as angular gravel and cobbles. Occasional ironstone fragments.
1.20						
2.50	D		3.10	30.10		Trialpit Complete at 3.100m

Remarks: Terminated due to refusal. Groundwater ingress at 1.8m. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

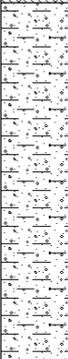
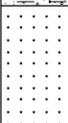
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445218.00 - 404839.00 Level: 36.80	Date 17/04/2024
Location: Thurnscoe			Dimensions: 1.90m	Scale 1:25
Client: Avant Homes			Depth: 1.80m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	36.50		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular to subangular clasts of sandstone and coal.
0.60	ES					Stiff brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of mudstone and sandstone and ironstone.
0.90	D		1.60	35.20		Extremely weak brown MUDSTONE recovered as angular gravel. Occasional ironstone fragments.
1.70	D				1.80	35.00

Remarks: Terminated at 1.8m to conduct infiltration test. Groundwater ingress at 1.8m HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445141.00 - 404906.00 Level: 38.80	Date 17/04/2024
Location: Thurnscoe		Dimensions: m		Scale 1:25
Client: Avant Homes		Depth: 1.90m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	38.50		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and coal
0.60	ES					Stiff brown and mottled grey slightly gravelly very sandy CLAY. Gravel is fine to medium angular clasts of sandstone.
1.40	D		1.50	37.30		Extremely weak brown SANDSTONE. recovered as angular gravel and cobbles.
			1.90	36.90		Trialpit Complete at 1.900m

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445200.00 - 404927.00 Level: 45.50	Date 17/04/2024
Location: Thurnscoe			Dimensions: 2.20m	Scale 1:25
Client: Avant Homes			Depth: 1.30m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.40	45.10		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular to subrounded clasts of mudstone, sandstone and coal.
0.60	ES					1.10
			1.30	44.20		Extremely weak brown SANDSTONE. Recovered as angular gravel.
Trialpit Complete at 1.300m						

Remarks: Terminated at 1.3m to conduct infiltration test. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m². values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

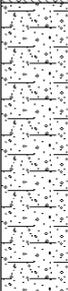
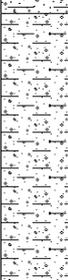
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445251.00 - 404952.00 Level: 46.40	Date 16/04/2024
Location: Thurnscoe		Dimensions: m		Scale 1:25
Client: Avant Homes		Depth: 2.50m		Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.40	46.00		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and mudstone and coal.
0.50	ES					1.50
1.60	D		1.80	44.60		
			2.50	43.90		Extremely weak brown MUDSTONE recovered as fine to coarse angular gravel.
						Trialpit Complete at 2.500m

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

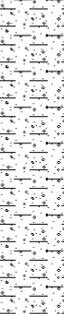
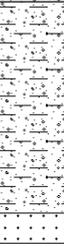
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445204.00 - 404975.00 Level: 46.10	Date 17/04/2024
Location: Thurnscoe			Dimensions: 2.40m	Scale 1:25
Client: Avant Homes			Depth: 2.40m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	45.80		TOPSOIL: Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular to subrounded clasts of mudstone, sandstone and coal.
0.60	ES					Brown gravelly slightly clayey SAND. Gravel is fine to coarse angular to subangular clasts of sandstone.
1.40	D		1.30	44.80		Stiff dark grey slightly gravelly sandy CLAY. Gravel is fine to coarse angular to subrounded clasts of mudstone and ironstone.
			2.20	43.90		Extremely weak brown MUDSTONE. Recovered as fine to medium angular gravel.
			2.40	43.70		Trialpit Complete at 2.400m

Remarks: Terminated at 2.4m to conduct infiltration test. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

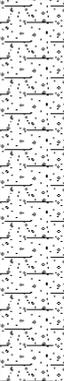
Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445475.00 - 404892.00 Level: 40.40	Date 18/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: 2.30m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.40	40.00		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular clasts of sandstone, mudstone and coal
0.90 1.00	ES	HVP=78	1.50	38.90		Firm to stiff brown slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and mudstone.
1.80 1.80	D	HVP=73	2.20 2.30	38.20 38.10		Firm to stiff orange mottled grey slightly gravelly sandy CLAY. Gravel is fine to coarse angular clasts of sandstone and mudstone and ironstone.
						Extremely weak brown to grey SANDSTONE. Recovered as angular gravel and cobbles.
Trialpit Complete at 2.300m						

Remarks: Terminated due to refusal. Groundwater ingress at 2.2m. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

Project Name Land off Thurnscoe Bridge Lane		Project No. 48926	Co-ords: 445348.00 - 404959.00 Level: 43.90	Date 18/04/2024
Location: Thurnscoe			Dimensions: <input type="text"/> m	Scale 1:25
Client: Avant Homes			Depth: <input type="text"/> m 2.30m	Logged JDO

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES		0.30	43.60		TOPSOIL: Dark brown slightly gravelly clayey SAND. Gravel is fine to coarse angular clasts of sandstone, mudstone and coal
0.60	ES		1.60	42.30		Brown slightly gravelly very clayey SAND with pockets and lenses of sandy clay. Gravel is fine to coarse angular clasts of sandstone.
			2.30	41.60		Extremely weak brown SANDSTONE. Recovered as tabular angular gravel. Occasional ironstone gravel.
Trialpit Complete at 2.300m						

Remarks: Terminated due to refusal. No groundwater encountered. HSV (19 mm) results indicate the undrained shear strength, presented as the average of three hand shear vane readings in kN/m2. values (kPa), corrected to BS1377.

Stability: Remained stable during excavation.

Rotary Core Log

Borehole No.

MW01

Sheet 1 of 1

Project Name: Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445611.00 - 404906.00	Hole Type RO
Location: Thurnscoe		Level: 41.50	Scale 1:50
Client: Avant Homes		Dates: 18/04/2024 -	Logged By Driller

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.30	41.20		Brown silty TOPSOIL	
										Brown to orange or grey sandy silty slightly gravelly CLAY.	1
							1.50	40.00		Brown occasional grey weathered MUDSTONE	2
							2.30	39.20		Dark grey to brown weathered MUDSTONE	
							2.50	39.00		Pale grey to brown weathered MUDSTONE	
							3.00	38.50		End of borehole at 3.00 m	3
											4
											5
											6
											7
											8
											9
											10

Remarks
Groundwater not encountered. Groundwater monitoring well installed.

Rotary Core Log

Borehole No.

MW02

Sheet 1 of 1

Project Name: Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445618.00 - 404837.00	Hole Type RO
Location: Thurnscoe		Level: 37.90	Scale 1:50
Client: Avant Homes		Dates: 18/04/2024 -	Logged By Driller

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.30	37.60		TOPSOIL	
							1.00	36.90		Brown CLAY	1
							1.50	36.40		Grey to brown CLAY	2
							3.00	34.90		Grey MUDSTONE	3
										End of borehole at 3.00 m	4
											5
											6
											7
											8
											9
											10

Remarks
Groundwater not encountered. Groundwater monitoring well installed.

Rotary Core Log

Borehole No.

MW03

Sheet 1 of 1

Project Name: Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445562.00 - 404812.00	Hole Type RO
Location: Thurnscoe		Level: 36.75	Scale 1:50
Client: Avant Homes		Dates: 18/04/2024 -	Logged By Driller

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.35	36.40		Brown silty TOPSOIL	
							1.30	35.45		Brown or pale brown or orange sandy silty CLAY.	1
							1.60	35.15		Pale brown CLAY/weathered MUDSTONE	
							3.00	33.75		Pale brown weathered MUDSTONE	2
										End of borehole at 3.00 m	3
											4
											5
											6
											7
											8
											9
											10

Remarks
Groundwater not encountered. Groundwater monitoring well installed.

Rotary Core Log

Borehole No.

MW04

Sheet 1 of 1

Project Name: Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445329.00 - 404785.00	Hole Type RO
Location: Thurnscoe		Level: 33.30	Scale 1:50
Client: Avant Homes		Dates: 18/04/2024 -	Logged By Driller

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.30	33.00		Brown clayey TOPSOIL	
							1.30	32.00		Pale brown to brown silty sandy slightly gravelly CLAY.	1
							2.30	31.00		Pale brown CLAY/weathered MUDSTONE	2
							3.50	29.80		Brown to grey weathered MUDSTONE	3
							5.20	28.10		Grey weathered MUDSTONE.	4
							5.60	27.70		Silt band	5
							5.20	28.10		Dark grey to black SILTSTONE/COAL	5
							5.60	27.70		Dark grey SILTSTONE	6
							6.00	27.30		End of borehole at 6.00 m	6

Remarks
Groundwater not encountered. Groundwater monitoring well installed.

Rotary Core Log

Borehole No.

MW05

Sheet 1 of 1

Project Name: Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445256.00 - 404810.00	Hole Type RO
Location: Thurnscoe		Level: 34.28	Scale 1:50
Client: Avant Homes		Dates: 18/04/2024 -	Logged By Driller

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.25	34.03		TOPSOIL	
							0.60	33.68		Brown CLAY	
							1.00	33.28		Light brown to orange CLAY	
							1.60	32.68		Grey to brown silty CLAY	1
							2.00	32.28		Grey MUDSTONE	
							2.10	32.18		Dark grey SILTSTONE	2
										Brown SILTSTONE	
							3.00	31.28		Grey SILTSTONE	3
							6.00	28.28		End of borehole at 6.00 m	6

Remarks
Groundwater not encountered. Groundwater monitoring well installed.

Rotary Core Log

Borehole No.

MW06

Sheet 1 of 1

Project Name: Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445177.00 - 404864.00	Hole Type RO
Location: Thurnscoe		Level: 38.70	Scale 1:50
Client: Avant Homes		Dates: 18/04/2024 -	Logged By Driller

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
						0.25	38.45		TOPSOIL		
						0.60	38.10		Brown CLAY		
						1.10	37.60		Light brown CLAY		
						3.00	35.70		Brown to grey CLAY		
						4.00	34.70		Brown SILTSTONE		
						4.50	34.20		Grey to brown SILTSTONE		
						5.00	33.70		Fine yellow SANDSTONE		
						6.00	32.70		Grey SILTSTONE		
										End of borehole at 6.00 m	

Remarks
Groundwater not encountered. Groundwater monitoring well installed.

Rotary Core Log

Borehole No.

MW07

Sheet 1 of 1

Project Name: Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445106.00 - 404948.00	Hole Type RO
Location: Thurnscoe		Level: 34.80	Scale 1:50
Client: Avant Homes		Dates: 18/04/2024 -	Logged By Driller

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.25	34.55		TOPSOIL	
							0.60	34.20		Grey and brown CLAY	
							1.00	33.80		Grey CLAY	
							1.70	33.10		Brown and grey MUDSTONE	1
							1.80	33.00		Black SHALE	
										Grey SILTSTONE	2
							4.00	30.80		Brown and grey SILTSTONE	4
							4.50	30.30		Grey SILTSTONE	5
							6.00	28.80		End of borehole at 6.00 m	6

Remarks
Groundwater not encountered. Groundwater monitoring well installed.

Rotary Core Log

Borehole No.

MW08

Sheet 1 of 1

Project Name: Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445168.00 - 404768.00	Hole Type RO
Location: Thurnscoe		Level: 31.25	Scale 1:50
Client: Avant Homes		Dates: 18/04/2024 -	Logged By Driller

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.30	30.95		Brown clayey TOPSOIL	
							1.00	30.25		Pale brown sandy silty CLAY	
							1.40	29.85		Pale brown clayey weathered MUDSTONE	1
							2.30	28.95		Grey to brown SILTSTONE	2
							3.10	28.15		Brown weathered MUDSTONE	3
							3.70	27.55		Grey to brown SILTSTONE	4
							4.70	26.55		Brown to grey weathered MUDSTONE	5
							6.00	25.25		End of borehole at 6.00 m	6
											7
											8
											9
											10

Remarks
Groundwater not encountered. Groundwater monitoring well installed.

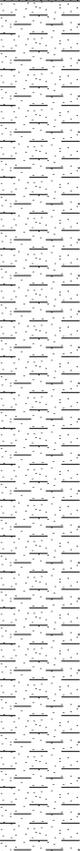
Rotary Core Log

Borehole No.

MW09

Sheet 1 of 1

Project Name: Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445123.00 - 404726.00	Hole Type RO
Location: Thurnscoe		Level: 28.60	Scale 1:50
Client: Avant Homes		Dates: 18/04/2024 -	Logged By Driller

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.20	28.40		Brown clayey TOPSOIL	
										Dark brown to pale brown soft sandy CLAYS and MUDSTONES	1 2 3 4 5
							5.90 6.00	22.70 22.60		Brown to grey moderately weak weathered MUDSTONE	6 7 8 9 10
										End of borehole at 6.00 m	

Remarks
Groundwater not encountered. Groundwater monitoring well installed.

Rotary Core Log

Borehole No.

MW10

Sheet 1 of 1

Project Name: Land off Thurnscoe Bridge Lane	Project No. 48926	Co-ords: 445238.00 - 404711.00	Hole Type RO
Location: Thurnscoe		Level: 28.80	Scale 1:50
Client: Avant Homes		Dates: 18/04/2024 - 18/04/2024	Logged By Driller

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.30	28.50		Brown clay TOPSOIL.	
										Pale to dark brown sandy moist CLAY	1
							2.10	26.70		Pale brown weathered MUDSTONE	2
							4.00	24.80		Greyish brown weathered MUDSTONE	4
							4.50	24.30		Strong grey SILTSTONE	
							5.10	23.70		Brown to grey MUDSTONE	5
							5.50	23.30		Grey SILTSTONE	
							6.00	22.80		End of borehole at 6.00 m	6
											7
											8
											9
											10

Remarks
Groundwater not encountered. Groundwater monitoring well installed.



View of the north west of the site, Houses are located along the northern boundary of the site. looking west.



View of the northeast of the site, Mature trees visible along the site boundary. looking east.

Prepared	JDO	Checked	KE	Job No.	48926	Date	16-18.04.2024	Photograph No.	1 & 2
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LAND OFF THURNSCOE BRIDGE LANE, THURNSCOE

AVANT HOMES

SITE PHOTOGRAPHS

Eastwood
CONSULTING ENGINEERS

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View of southwest of the site. Mature trees visible along the boundary looking southwest.



View of southeast of the site. Mature trees visible along the boundary looking southeast.

Prepared	JDO	Checked	KE	Job No.	48926	Date	16-18.04.2024	Photograph No.	3 & 4
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LAND OFF THURNSCOE BRIDGE LANE, THURNSCOE

AVANT HOMES

SITE PHOTOGRAPHS

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eastwoodce.com



View of the slope in the southeastern boundary of the site. Looking southwest.



Overview of the southern field. Looking west.

Prepared	JDO	Checked	KE	Job No.	48926	Date	16-18.04.2024	Photograph No.	5 & 6
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LAND OFF THURNSCOE BRIDGE LANE, THURNSCOE

AVANT HOMES

SITE PHOTOGRAPHS

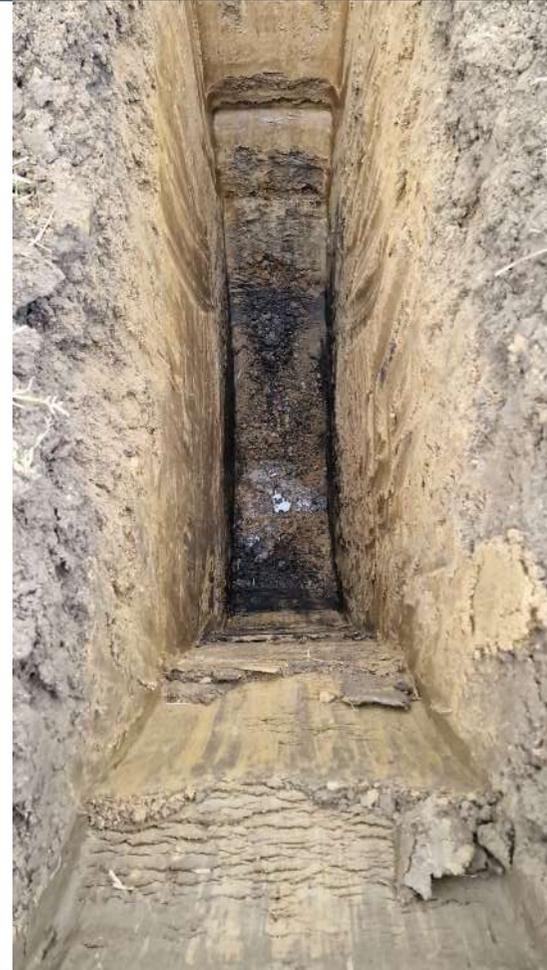
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CONSULTING ENGINEERS

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eastwoodce.com



Concrete capped manhole in the southern field.



TP23 showing dark grey mudstone at the base. Groundwater ingress at the base.

Prepared	JDO	Checked	KE	Job No.	48926	Date	16-18.04.2024	Photograph No.	7 & 8
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LAND OFF THURNSCOE BRIDGE LANE, THURNSCOE

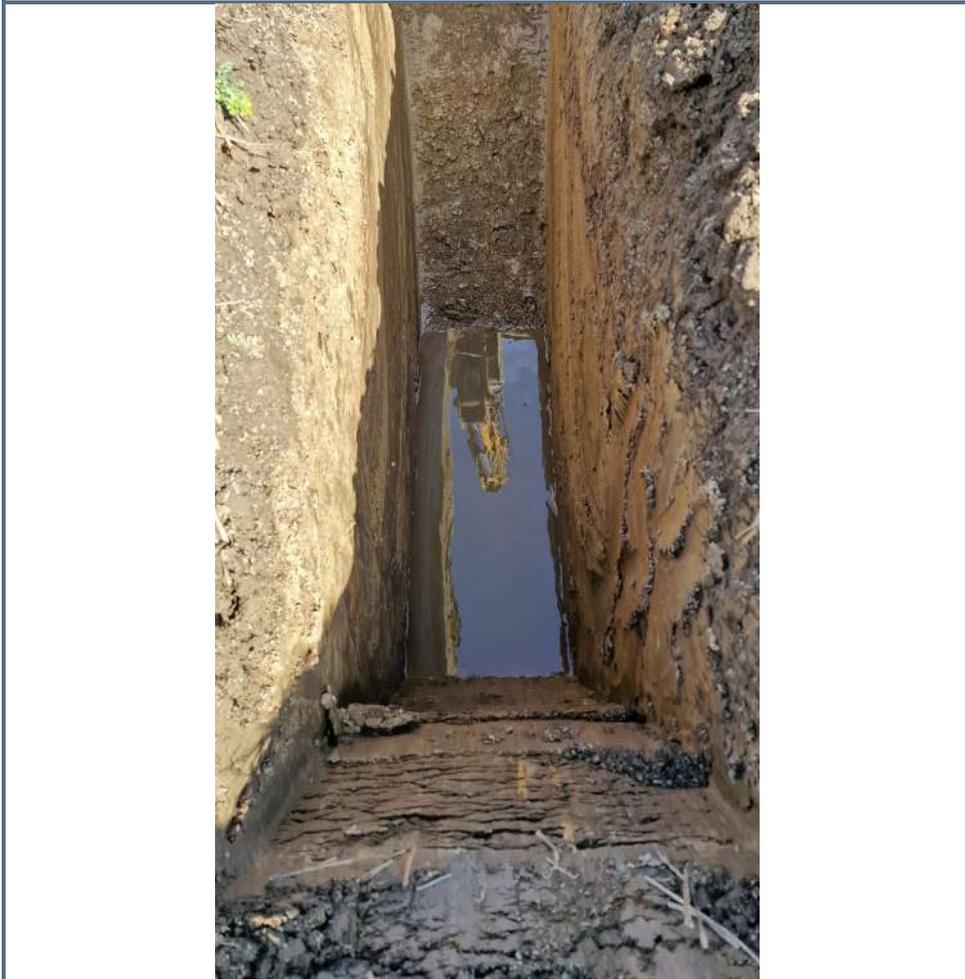
AVANT HOMES

SITE PHOTOGRAPHS

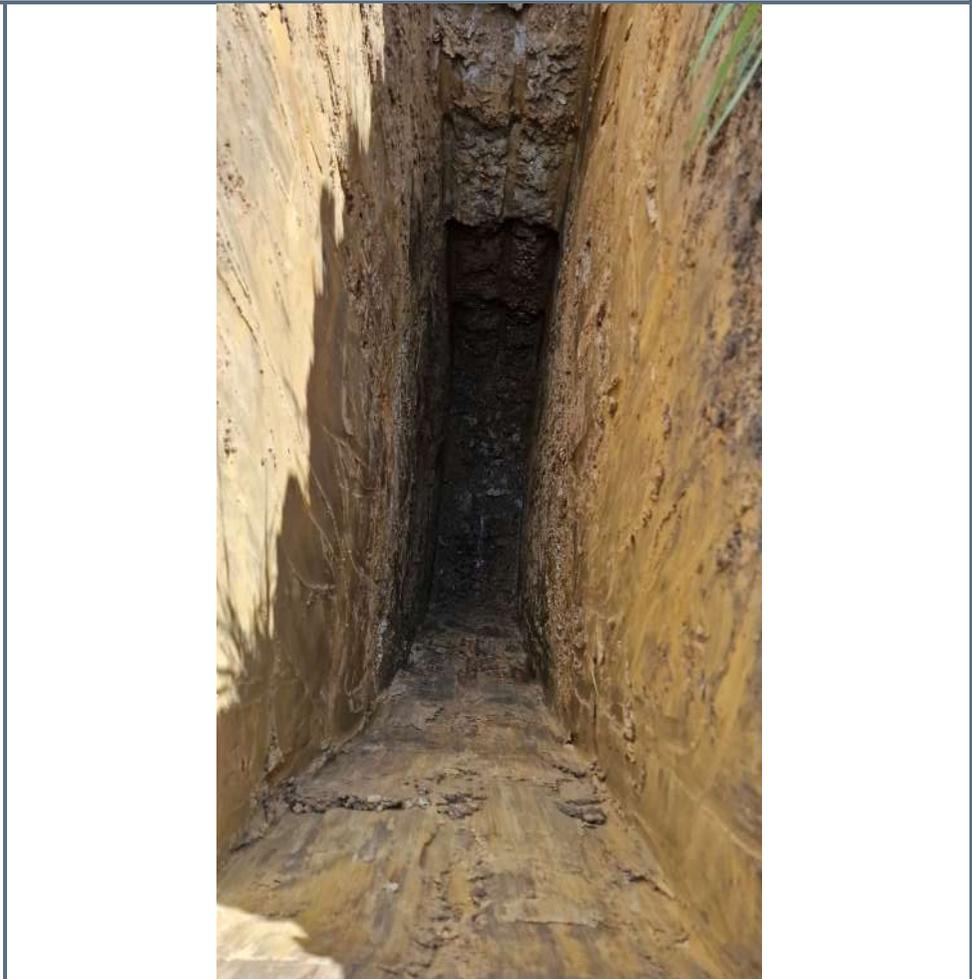
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TP08 showing significant groundwater ingress at the base. Picture taken approximately 5 minutes after terminating excavation.



TP25 – Showing wet strata from 1.8m.

Prepared	JDO	Checked	KE	Job No.	48926	Date	16-18.04.2024	Photograph No.	9 & 10
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LAND OFF THURNSCOE BRIDGE LANE, THURNSCOE

AVANT HOMES

SITE PHOTOGRAPHS

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eastwoodce.com



Iron stained cobble recovered from TP09.



TP11 showing shale and coal at the base. Brown to grey clay and mudstone above.

Prepared	JDO	Checked	KE	Job No.	48926	Date	16-18.04.2024	Photograph No.	11 & 12
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LAND OFF THURNSCOE BRIDGE LANE, THURNSCOE

AVANT HOMES

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TP32 showing sandstone at the base.



Tree in the southeast of the site. Looking north.

Prepared	JDO	Checked	KE	Job No.	48926	Date	16-18.04.2024	Photograph No.	13 & 14
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LAND OFF THURNSCOE BRIDGE LANE, THURNSCOE

AVANT HOMES

SITE PHOTOGRAPHS

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Appendix 3

Geotechnical Test Results – PSL Report PSL24/2977



LABORATORY REPORT



Contract Number: PSL24/2977

Report Date: 07 May 2024
Client's Reference: 48926
Client Name: Eastwood & Partners
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

For the attention of: Bryony Reynolds

Contract Title: Land off Thurnscoe Bridge Lane, Thurnscoe
Date Received: 26/4/2024
Date Commenced: 26/4/2024
Date Completed: 7/5/2024

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Managing Director)

R Berriman
(Associate Director)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

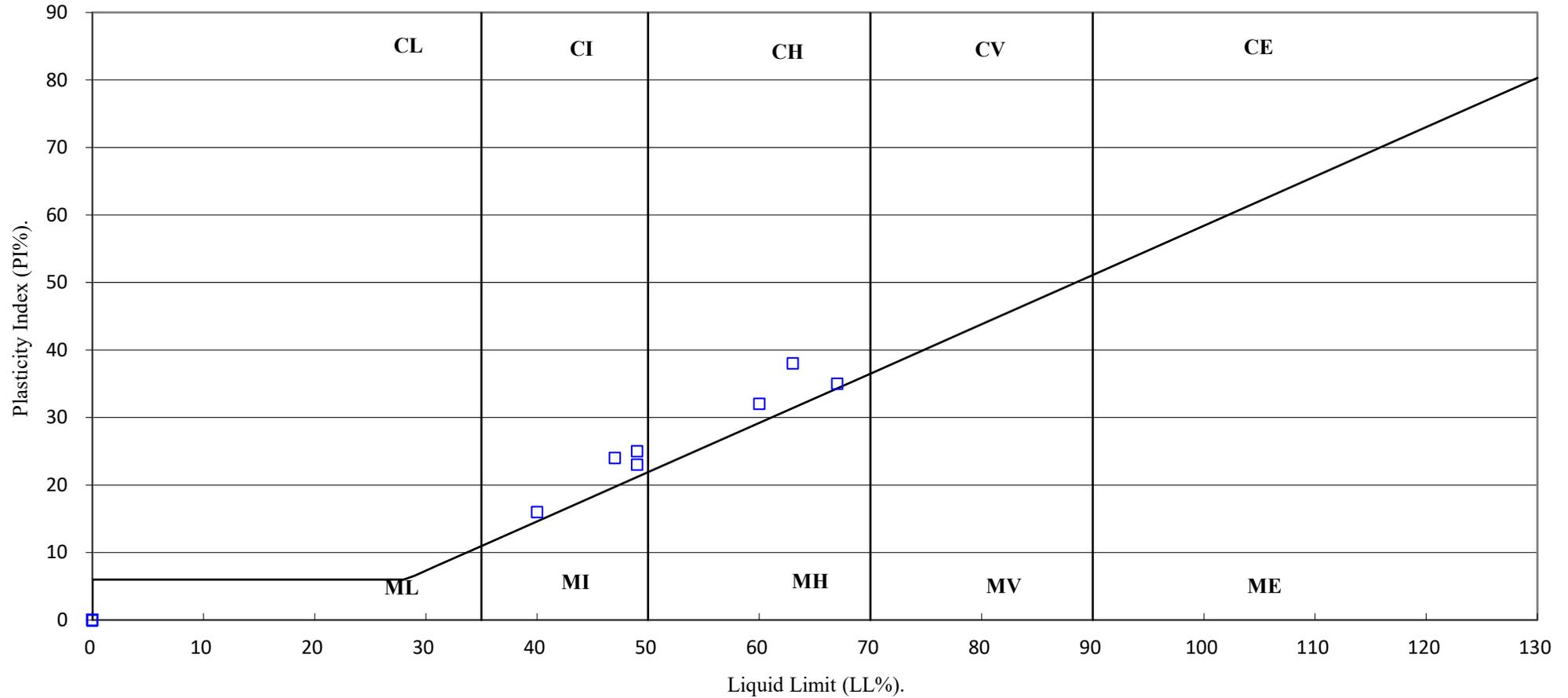
S Eyre
(Senior Technician)


T Watkins
(Senior Technician)

5 – 7 Hexthorpe Road,
Hexthorpe,
Doncaster,
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awatkins@prosoils.co.uk

Page 1 of

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



Land off Thurnscoe Bridge Lane, Thurnscoe

Contract No:

PSL24/2977

Client Ref:

48926

Appendix 4

Chemical Test Results – i2 Analytical Report 24-015638

Table of Assessment Values - Residential with Homegrown Produce



Eastwood Consulting Engineers
Unit3
Gander Down Barns, Rodfield Ln
Nr Alresford

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

t: 0125 2360580

e: jack.ditchfield-ogle@eastwoodce.com

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

Analytical Report Number : 24-015638

Project / Site name:	Land off Thurnscoe Bridge Lane, Thurnscoe	Samples received on:	22/04/2024
Your job number:	48926	Samples instructed on/ Analysis started on:	22/04/2024
Your order number:		Analysis completed by:	26/04/2024
Report Issue Number:	1	Report issued on:	29/04/2024
Samples Analysed:	46 soil samples		

Signed: 

Joanna Szwagrak
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178181	178182	178183	178184	178185
Sample Reference	TP01/SA01	TP02	TP03/SA02	TP04	TP05
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	0.10	0.10	0.10	0.10
Date Sampled	17/04/2024	16/07/2024	17/04/2024	18/04/2024	16/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	20	21	26	19
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8	0.8

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	MMI	MMI	MMI	MMI	MMI

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.5	6.9	7.4	7	6.9
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	3.5	-	2.7	-	-

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	0.15	0.14	0.1	0.07	0.08
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.43	0.29	0.23	0.14	0.14
Pyrene	mg/kg	0.05	MCERTS	0.38	0.27	0.2	0.13	0.12
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.2	0.14	0.09	0.06	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.27	0.2	0.14	0.08	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.33	0.19	0.15	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.13	0.13	0.07	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.26	0.18	0.13	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.16	0.1	0.08	< 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	0.17	0.12	0.09	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.48	1.76	1.29	< 0.80	< 0.80
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Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178181	178182	178183	178184	178185
Sample Reference	TP01/SA01	TP02	TP03/SA02	TP04	TP05
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	0.10	0.10	0.10	0.10
Date Sampled	17/04/2024	16/07/2024	17/04/2024	18/04/2024	16/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Parameter	Units	Limit of detection	Accreditation Status	178181	178182	178183	178184	178185
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.5	13	13	12	14
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25	22	25	25	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	28	22	24	26	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	72	40	40	37	41
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	20	18	22	23	23
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	110	86	94	100	94

Pesticides

Pesticide	Units	Limit of detection	Accreditation Status	178181	178182	178183	178184	178185
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	-
Alachlor	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	10	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Etrifos	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Beta-BHC	µg/kg	10	NONE	-	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	-
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Delta-BHC	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178181	178182	178183	178184	178185			
Sample Reference	TP01/SA01	TP02	TP03/SA02	TP04	TP05			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10	0.10	0.10	0.10	0.10			
Date Sampled	17/04/2024	16/07/2024	17/04/2024	18/04/2024	16/04/2024			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Isodrin	µg/kg	10	NONE	-	-	-	-	-
Methacrifos	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-

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

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178186	178187	178188	178189	178190
Sample Reference	TP06	TP07	TP08	TP09	TP10
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.15	0.10	0.10	0.10	0.10
Date Sampled	16/04/2024	16/04/2024	16/04/2024	18/04/2024	18/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	19	21	24	24
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8	0.5

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	MMI	MMI	MMI	MMI	MMI

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.2	7.1	6.7	7.2	7
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	2.8	-	-

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	0.3	0.08	0.07	0.09	0.1
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.65	0.19	0.18	0.17	0.19
Pyrene	mg/kg	0.05	MCERTS	0.57	0.16	0.18	0.15	0.17
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.28	0.12	0.13	0.09	0.1
Chrysene	mg/kg	0.05	MCERTS	0.36	0.13	0.13	0.13	0.12
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.34	0.11	0.15	0.12	0.14
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.17	0.11	0.06	0.05	0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.31	0.09	0.12	< 0.05	0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.16	0.09	0.08	0.08	0.08
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	0.18	0.11	0.08	0.06	0.09

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.32	1.19	1.2	0.94	1.2
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Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178186	178187	178188	178189	178190
Sample Reference	TP06	TP07	TP08	TP09	TP10
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.15	0.10	0.10	0.10	0.10
Date Sampled	16/04/2024	16/04/2024	16/04/2024	18/04/2024	18/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Element	Unit	Limit	Accreditation	178186	178187	178188	178189	178190
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	15	14	15	14
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	1.9	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	24	24	29	48
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	26	25	29	24
Lead (aqua regia extractable)	mg/kg	1	MCERTS	110	55	42	46	43
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	20	19	21	26	20
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	99	100	95	110	95

Pesticides

Pesticide	Unit	Limit	Accreditation	178186	178187	178188	178189	178190
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	< 10
Alachlor	µg/kg	10	NONE	-	-	-	-	< 10
Bifenthrin	µg/kg	10	NONE	-	-	-	-	< 10
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	< 10
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	< 10
Omethoate	µg/kg	10	NONE	-	-	-	-	< 10
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	< 10
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	< 10
Demeton-O	µg/kg	10	NONE	-	-	-	-	< 10
Demeton-S	µg/kg	10	NONE	-	-	-	-	< 10
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	< 10
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	< 10
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	< 10
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	< 10
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	< 10
Etrinfos	µg/kg	10	NONE	-	-	-	-	< 10
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	< 10
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	< 10
Propetamphos	µg/kg	10	NONE	-	-	-	-	< 10
Tecnazene	µg/kg	10	NONE	-	-	-	-	< 10
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	< 10
Aldrin	µg/kg	10	NONE	-	-	-	-	< 10
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	< 10
Beta-BHC	µg/kg	10	NONE	-	-	-	-	< 10
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	< 10
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	< 10
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	< 10
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	< 10
Carbophenothion	µg/kg	10	NONE	-	-	-	-	< 10
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
Delta-BHC	µg/kg	10	NONE	-	-	-	-	< 10
Dieldrin	µg/kg	10	NONE	-	-	-	-	< 10

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178186	178187	178188	178189	178190			
Sample Reference	TP06	TP07	TP08	TP09	TP10			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.15	0.10	0.10	0.10	0.10			
Date Sampled	16/04/2024	16/04/2024	16/04/2024	18/04/2024	18/04/2024			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Deltamethrin	µg/kg	10	NONE	-	-	-	-	< 10
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	< 10
Endrin	µg/kg	10	NONE	-	-	-	-	< 10
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	< 10
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	< 10
Fenthion	µg/kg	10	NONE	-	-	-	-	< 10
Isodrin	µg/kg	10	NONE	-	-	-	-	< 10
Methacrifos	µg/kg	10	NONE	-	-	-	-	< 10
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	< 10
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	< 10
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	< 10
Parathion	µg/kg	10	NONE	-	-	-	-	< 10
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	< 10
Pendimethalin	µg/kg	10	NONE	-	-	-	-	< 10
Phorate	µg/kg	10	NONE	-	-	-	-	< 10
Phosalone	µg/kg	10	NONE	-	-	-	-	< 10
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	< 10
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	< 10
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	< 10
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	< 10
Propyzamide	µg/kg	10	NONE	-	-	-	-	< 10
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	< 10
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
Dichlorvos	µg/kg	10	NONE	-	-	-	-	< 10
Dimethoate	µg/kg	10	NONE	-	-	-	-	< 10
Diazinon	µg/kg	10	NONE	-	-	-	-	< 10
Ethion	µg/kg	10	NONE	-	-	-	-	< 10
Fenitrothion	µg/kg	10	NONE	-	-	-	-	< 10
Malathion	µg/kg	10	NONE	-	-	-	-	< 10
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	< 10
Trifluralin	µg/kg	10	NONE	-	-	-	-	< 10
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	< 10

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

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178191	178192	178193	178194	178195
Sample Reference	TP11	TP12	TP13	TP14	TP15
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	0.10	0.10	0.10	0.10
Date Sampled	18/04/2024	18/04/2024	16/04/2024	16/04/2024	16/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	24	20	22	23	21
Total mass of sample received	kg	0.1	NONE	1.1	0.8	0.8	0.8	0.8

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	MBI	MBI	MBI	MBI	MBI

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.1	6.9	7.8	7.9	7.3
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	3.2	-	3

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	0.12	< 0.05	0.08	0.07	0.07
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.24	0.11	0.16	0.15	0.17
Pyrene	mg/kg	0.05	MCERTS	0.19	0.1	0.13	0.14	0.15
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.11	< 0.05	0.08	0.07	0.09
Chrysene	mg/kg	0.05	MCERTS	0.12	< 0.05	0.1	0.11	0.1
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.12	< 0.05	0.1	0.11	0.14
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.06	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.1	< 0.05	0.09	0.09	0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.06	< 0.05	< 0.05	0.07	0.06
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	0.07	< 0.05	< 0.05	0.06	0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.19	< 0.80	< 0.80	0.86	0.93
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Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number				178191	178192	178193	178194	178195
Sample Reference				TP11	TP12	TP13	TP14	TP15
Sample Number				None Supplied				
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				18/04/2024	18/04/2024	16/04/2024	16/04/2024	16/04/2024
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Parameter	Units	Limit of detection	Accreditation Status	178191	178192	178193	178194	178195
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	15	14	18	15
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	27	29	22	26	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	26	25	28	24
Lead (aqua regia extractable)	mg/kg	1	MCERTS	41	43	37	54	43
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	24	24	20	20	19
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	100	99	83	100	100

Pesticides

Parameter	Units	Limit of detection	Accreditation Status	178191	178192	178193	178194	178195
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	-
Alachlor	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	10	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Etrifos	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Beta-BHC	µg/kg	10	NONE	-	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	-
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Delta-BHC	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178191	178192	178193	178194	178195			
Sample Reference	TP11	TP12	TP13	TP14	TP15			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10	0.10	0.10	0.10	0.10			
Date Sampled	18/04/2024	18/04/2024	16/04/2024	16/04/2024	16/04/2024			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Isodrin	µg/kg	10	NONE	-	-	-	-	-
Methacrifos	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-

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

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number				178196	178197	178198	178199	178200
Sample Reference				TP16	TP17	TP18/SA03	TP19	TP20
Sample Number				None Supplied				
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				18/04/2024	17/04/2024	17/04/2024	16/04/2024	16/04/2024
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Parameter	Units	Limit of detection	Accreditation Status	178196	178197	178198	178199	178200
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	19	20	19	21
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.6	0.8	0.8

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	MBI	MBI	MBI	MBI	MBI

General Inorganics

Parameter	Units	N/A	MCERTS	178196	178197	178198	178199	178200
pH (L099)	pH Units	N/A	MCERTS	7.2	7.1	7.2	7	7.2
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	2.6	-	-	-

Speciated PAHs

Parameter	Units	N/A	MCERTS	178196	178197	178198	178199	178200
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	0.11	0.07	0.07	0.08	0.06
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.21	0.13	0.14	0.17	0.12
Pyrene	mg/kg	0.05	MCERTS	0.19	0.12	0.11	0.16	0.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.11	< 0.05	0.07	0.09	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.15	< 0.05	0.09	0.12	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.14	< 0.05	0.09	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.08	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.13	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.08	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.09	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Parameter	Units	N/A	MCERTS	178196	178197	178198	178199	178200
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.28	< 0.80	< 0.80	< 0.80	< 0.80

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178196	178197	178198	178199	178200
Sample Reference	TP16	TP17	TP18/SA03	TP19	TP20
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	0.10	0.10	0.10	0.10
Date Sampled	18/04/2024	17/04/2024	17/04/2024	16/04/2024	16/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Parameter	Units	Limit of detection	Accreditation Status	178196	178197	178198	178199	178200
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	14	13	15	15
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	25	25	29	23
Copper (aqua regia extractable)	mg/kg	1	MCERTS	20	23	24	26	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	34	39	41	39	34
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	18	21	21	27	20
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	80	93	97	100	90

Pesticides

Pesticide	Units	Limit of detection	Accreditation Status	178196	178197	178198	178199	178200
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	-
Alachlor	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	10	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Etrifos	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Beta-BHC	µg/kg	10	NONE	-	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	-
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Delta-BHC	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178196	178197	178198	178199	178200			
Sample Reference	TP16	TP17	TP18/SA03	TP19	TP20			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10	0.10	0.10	0.10	0.10			
Date Sampled	18/04/2024	17/04/2024	17/04/2024	16/04/2024	16/04/2024			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Isodrin	µg/kg	10	NONE	-	-	-	-	-
Methacrifos	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-

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

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number				178201	178202	178203	178204	178205
Sample Reference				TP21	TP22	TP23	TP24	TP25
Sample Number				None Supplied				
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				16/04/2024	16/04/2024	17/04/2024	17/04/2024	17/04/2024
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	20	20	21	20
Total mass of sample received	kg	0.1	NONE	0.5	0.3	0.8	0.8	0.8

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	MBI	MBI	MBI	MBI	MBI

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.2	7.3	7.2	7.3	7.3
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	3.1

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.06	< 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	0.07	0.09	0.05	0.08	0.11
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.14	0.16	0.1	0.12	0.17
Pyrene	mg/kg	0.05	MCERTS	0.11	0.13	0.1	0.11	0.16
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.06
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.08	0.16
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 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	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178201	178202	178203	178204	178205
Sample Reference	TP21	TP22	TP23	TP24	TP25
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	0.10	0.10	0.10	0.10
Date Sampled	16/04/2024	16/04/2024	17/04/2024	17/04/2024	17/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Element	Unit	Limit	Accreditation	178201	178202	178203	178204	178205
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	15	15	14	15
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	24	23	22	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	26	24	23	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	34	42	37	38	43
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	17	20	21	19	20
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	82	100	93	87	94

Pesticides

Pesticide	Unit	Limit	Accreditation	178201	178202	178203	178204	178205
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	-
Alachlor	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	10	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Etrifos	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Beta-BHC	µg/kg	10	NONE	-	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	-
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Delta-BHC	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178201	178202	178203	178204	178205			
Sample Reference	TP21	TP22	TP23	TP24	TP25			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10	0.10	0.10	0.10	0.10			
Date Sampled	16/04/2024	16/04/2024	17/04/2024	17/04/2024	17/04/2024			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Isodrin	µg/kg	10	NONE	-	-	-	-	-
Methacrifos	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-

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

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178206			178207			178208			178209			178210		
Sample Reference	TP26/SA04			TP27			TP28/SA06			TP29			TP21		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.10			0.10			0.10			0.10			1.80		
Date Sampled	17/04/2024			17/04/2024			16/04/2024			16/04/2024			16/04/2024		
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status												

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	19	18	19	13	
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8	0.5	

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	MMI	MMI	MMI	MMI	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	6.6	7	6.9	6.5	5.9
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	2700
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	39
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	0.0196
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	19.6
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	1000
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	2	-	2.5	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.06	< 0.05	< 0.05	0.06	-
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	0.06	< 0.05	0.08	0.07	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	0.08	< 0.05	0.12	0.12	-
Pyrene	mg/kg	0.05	MCERTS	0.07	< 0.05	0.1	0.1	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 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	-
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Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178206	178207	178208	178209	178210
Sample Reference	TP26/SA04	TP27	TP28/SA06	TP29	TP21
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.10	0.10	0.10	0.10	1.80
Date Sampled	17/04/2024	17/04/2024	16/04/2024	16/04/2024	16/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Element	Unit	Limit of detection	Accreditation Status	178206	178207	178208	178209	178210
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	16	27	30	-
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	< 1.8	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	25	26	25	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	25	28	33	33	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	35	33	36	39	-
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	21	23	22	20	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	89	89	74	79	-

Pesticides

Pesticide	Unit	Limit of detection	Accreditation Status	178206	178207	178208	178209	178210
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	< 10	-	-
Alachlor	µg/kg	10	NONE	-	-	< 10	-	-
Bifenthrin	µg/kg	10	NONE	-	-	< 10	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	< 10	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	< 10	-	-
Omethoate	µg/kg	10	NONE	-	-	< 10	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	< 10	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	< 10	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	< 10	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	< 10	-	-
Demeton-O	µg/kg	10	NONE	-	-	< 10	-	-
Demeton-S	µg/kg	10	NONE	-	-	< 10	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	< 10	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	< 10	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	< 10	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	< 10	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	< 10	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	< 10	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	< 10	-	-
Etrifos	µg/kg	10	NONE	-	-	< 10	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	< 10	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	< 10	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	< 10	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	< 10	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	< 10	-	-
Propetamphos	µg/kg	10	NONE	-	-	< 10	-	-
Tecnazene	µg/kg	10	NONE	-	-	< 10	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	< 10	-	-
Aldrin	µg/kg	10	NONE	-	-	< 10	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	< 10	-	-
Beta-BHC	µg/kg	10	NONE	-	-	< 10	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	< 10	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	< 10	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	< 10	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	< 10	-	-
Carbophenothion	µg/kg	10	NONE	-	-	< 10	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	< 10	-	-
Delta-BHC	µg/kg	10	NONE	-	-	< 10	-	-
Dieldrin	µg/kg	10	NONE	-	-	< 10	-	-

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178206	178207	178208	178209	178210			
Sample Reference	TP26/SA04	TP27	TP28/SA06	TP29	TP21			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.10	0.10	0.10	0.10	1.80			
Date Sampled	17/04/2024	17/04/2024	16/04/2024	16/04/2024	16/04/2024			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Deltamethrin	µg/kg	10	NONE	-	-	< 10	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	< 10	-	-
Endrin	µg/kg	10	NONE	-	-	< 10	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	< 10	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	< 10	-	-
Fenthion	µg/kg	10	NONE	-	-	< 10	-	-
Isodrin	µg/kg	10	NONE	-	-	< 10	-	-
Methacrifos	µg/kg	10	NONE	-	-	< 10	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	< 10	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	< 10	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	< 10	-	-
Parathion	µg/kg	10	NONE	-	-	< 10	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	< 10	-	-
Pendimethalin	µg/kg	10	NONE	-	-	< 10	-	-
Phorate	µg/kg	10	NONE	-	-	< 10	-	-
Phosalone	µg/kg	10	NONE	-	-	< 10	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	< 10	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	< 10	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	< 10	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	< 10	-	-
Propyzamide	µg/kg	10	NONE	-	-	< 10	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	< 10	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	< 10	-	-
Dichlorvos	µg/kg	10	NONE	-	-	< 10	-	-
Dimethoate	µg/kg	10	NONE	-	-	< 10	-	-
Diazinon	µg/kg	10	NONE	-	-	< 10	-	-
Ethion	µg/kg	10	NONE	-	-	< 10	-	-
Fenitrothion	µg/kg	10	NONE	-	-	< 10	-	-
Malathion	µg/kg	10	NONE	-	-	< 10	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	< 10	-	-
Trifluralin	µg/kg	10	NONE	-	-	< 10	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	< 10	-	-

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

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number				178211	178212	178213	178214	178215
Sample Reference				TP02	TP03/SA02	TP06	TP07	TP08
Sample Number				None Supplied				
Depth (m)				0.60	0.80	0.60	0.80	0.70
Date Sampled				17/04/2024	16/04/2024	16/04/2024	16/04/2024	18/04/2024
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Stone Content	%	0.1	NONE	33.6	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	16	16	16	13
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.9	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	6.7	6.7	7.1	6.5	5.5
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.068	0.031	0.028	0.027	0.022
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	34	78	35	61	54
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0172	0.0392	0.0174	0.0307	0.027
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	17.2	39.2	17.4	30.7	27
Total Sulphur	mg/kg	50	MCERTS	260	110	120	130	110
Total Sulphur	%	0.005	MCERTS	0.026	0.011	0.012	0.013	0.011
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

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	0.09	< 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	< 0.05	0.11	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.09	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 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	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178211	178212	178213	178214	178215
Sample Reference	TP02	TP03/SA02	TP06	TP07	TP08
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.60	0.80	0.60	0.80	0.70
Date Sampled	17/04/2024	16/04/2024	16/04/2024	16/04/2024	18/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Element	Unit	Limit	Accreditation	178211	178212	178213	178214	178215
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	30	12	8.8	10
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	33	20	32	34
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18	28	12	28	32
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	16	13	24	20
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	23	33	17	25	31
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	72	80	57	98	90

Pesticides

Pesticide	Unit	Limit	Accreditation	178211	178212	178213	178214	178215
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	-
Alachlor	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	10	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Etrifos	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Beta-BHC	µg/kg	10	NONE	-	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	-
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Delta-BHC	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178211	178212	178213	178214	178215			
Sample Reference	TP02	TP03/SA02	TP06	TP07	TP08			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.60	0.80	0.60	0.80	0.70			
Date Sampled	17/04/2024	16/04/2024	16/04/2024	16/04/2024	18/04/2024			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Isodrin	µg/kg	10	NONE	-	-	-	-	-
Methacrifos	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-

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

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178216	178217	178218	178219	178220
Sample Reference	TP10	TP12	TP15	TP16	TP19
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	0.60	0.80	0.60	0.70
Date Sampled	18/04/2024	16/04/2024	16/04/2024	17/04/2024	16/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	25.9	< 0.1
Moisture Content	%	0.01	NONE	20	18	20	11	19
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.9	0.8	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.8	7.5	7.3	7.5	7.6
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.031	0.036	0.04	0.04	0.014
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	25	170	180	14	26
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0123	0.0827	0.0899	0.00716	0.0128
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	12.3	82.7	89.9	7.16	12.8
Total Sulphur	mg/kg	50	MCERTS	170	110	160	140	52
Total Sulphur	%	0.005	MCERTS	0.017	0.011	0.016	0.014	0.005
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

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	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 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	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178216				178217				178218				178219				178220			
Sample Reference	TP10				TP12				TP15				TP16				TP19			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.50				0.60				0.80				0.60				0.70			
Date Sampled	18/04/2024				16/04/2024				16/04/2024				17/04/2024				16/04/2024			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																	

Heavy Metals / Metalloids

Element	Units	Limit of detection	Accreditation Status	178216	178217	178218	178219	178220
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.6	12	15	9.5	16
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29	32	32	10	33
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	33	24	7.4	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	22	21	17	6.7	12
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	21	36	25	15	30
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	84	81	81	37	69

Pesticides

Pesticide	Units	Limit of detection	Accreditation Status	178216	178217	178218	178219	178220
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	-
Alachlor	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	10	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Etrifos	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Beta-BHC	µg/kg	10	NONE	-	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	-
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Delta-BHC	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178216	178217	178218	178219	178220			
Sample Reference	TP10	TP12	TP15	TP16	TP19			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.50	0.60	0.80	0.60	0.70			
Date Sampled	18/04/2024	16/04/2024	16/04/2024	17/04/2024	16/04/2024			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Isodrin	µg/kg	10	NONE	-	-	-	-	-
Methacrifos	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-

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

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178221	178222	178223	178224	178225			
Sample Reference	TP23	TP24	TP25	TP26/SA04	TP27			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.90	0.60	0.60	0.60	0.60			
Date Sampled	17/04/2024	17/04/2024	17/04/2024	17/04/2024	17/04/2024			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Parameter	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	12	12	14	15
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.9	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-	-	-

General Inorganics

Parameter	pH Units	N/A	MCERTS	7.6	7.6	7.4	7.6	7.6
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.02	0.015	0.018	0.014	0.023
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	63	28	65	8	8.3
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0316	0.0139	0.0325	0.00401	0.00415
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	31.6	13.9	32.5	4.01	4.15
Total Sulphur	mg/kg	50	MCERTS	89	53	83	< 50	100
Total Sulphur	%	0.005	MCERTS	0.009	0.005	0.008	< 0.005	0.01
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Parameter	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
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	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 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	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178221	178222	178223	178224	178225
Sample Reference	TP23	TP24	TP25	TP26/SA04	TP27
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.90	0.60	0.60	0.60	0.60
Date Sampled	17/04/2024	17/04/2024	17/04/2024	17/04/2024	17/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Element	Unit	Limit	Accreditation	178221	178222	178223	178224	178225
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7	11	9	11	16
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	41	34	40	35	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	29	33	29	27
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	14	22	19	21
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31	33	63	33	16
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	93	77	110	87	53

Pesticides

Pesticide	Unit	Limit	Accreditation	178221	178222	178223	178224	178225
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	-
Alachlor	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	10	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Etrifos	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Beta-BHC	µg/kg	10	NONE	-	-	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	-
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Delta-BHC	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178221	178222	178223	178224	178225			
Sample Reference	TP23	TP24	TP25	TP26/SA04	TP27			
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Depth (m)	0.90	0.60	0.60	0.60	0.60			
Date Sampled	17/04/2024	17/04/2024	17/04/2024	17/04/2024	17/04/2024			
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Isodrin	µg/kg	10	NONE	-	-	-	-	-
Methacrifos	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-

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

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178226			
Sample Reference	TP29			
Sample Number	None Supplied			
Depth (m)	0.50			
Date Sampled	16/04/2024			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	11
Total mass of sample received	kg	0.1	NONE	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-
Asbestos Analyst ID	N/A	N/A	N/A	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.3
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.242
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	53
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0265
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	26.5
Total Sulphur	mg/kg	50	MCERTS	800
Total Sulphur	%	0.005	MCERTS	0.08
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-

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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Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number	178226			
Sample Reference	TP29			
Sample Number	None Supplied			
Depth (m)	0.50			
Date Sampled	16/04/2024			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Heavy Metals / Metalloids

Element	Units	Limit of detection	Accreditation Status	Result
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	27
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	62

Pesticides

Pesticide	Units	Limit of detection	Accreditation Status	Result
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-
Alachlor	µg/kg	10	NONE	-
Bifenthrin	µg/kg	10	NONE	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-
Omethoate	µg/kg	10	NONE	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-
Dimethylvinphos	µg/kg	10	NONE	-
Demeton-O	µg/kg	10	NONE	-
Demeton-S	µg/kg	10	NONE	-
Endrin Aldehyde	µg/kg	10	NONE	-
Endrin Ketone	µg/kg	10	NONE	-
Hexachlorobutadiene	µg/kg	10	NONE	-
Phosphamidon (Sum)	µg/kg	10	NONE	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-
Cis-Permethrin	µg/kg	10	NONE	-
Endosulfan sulfate	µg/kg	10	NONE	-
Etrifos	µg/kg	10	NONE	-
Fenvalerate (Sum)	µg/kg	10	NONE	-
Hexachlorobenzene	µg/kg	10	NONE	-
Mevinphos, E+Z	µg/kg	10	NONE	-
Pentachlorobenzene	µg/kg	10	NONE	-
Pirimiphos-ethyl	µg/kg	10	NONE	-
Propetamphos	µg/kg	10	NONE	-
Tecnazene	µg/kg	10	NONE	-
Trans-Permethrin	µg/kg	10	NONE	-
Aldrin	µg/kg	10	NONE	-
Azinphos-methyl	µg/kg	10	NONE	-
Beta-BHC	µg/kg	10	NONE	-
Cis-Chlordane	µg/kg	10	NONE	-
Chlorfenvinphos	µg/kg	10	NONE	-
Chlorpyrifos	µg/kg	10	NONE	-
Chlorothalonil	µg/kg	10	NONE	-
Carbophenothion	µg/kg	10	NONE	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-
Delta-BHC	µg/kg	10	NONE	-
Dieldrin	µg/kg	10	NONE	-

Analytical Report Number: 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Lab Sample Number				178226
Sample Reference				TP29
Sample Number				None Supplied
Depth (m)				0.50
Date Sampled				16/04/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Deltamethrin	µg/kg	10	NONE	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-
Endrin	µg/kg	10	NONE	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-
Fenthion	µg/kg	10	NONE	-
Isodrin	µg/kg	10	NONE	-
Methacrifos	µg/kg	10	NONE	-
O,p'-DDD	µg/kg	10	NONE	-
O,p'-DDE	µg/kg	10	NONE	-
O,p'-DDT	µg/kg	10	NONE	-
Parathion	µg/kg	10	NONE	-
Parathion-methyl	µg/kg	10	NONE	-
Pendimethalin	µg/kg	10	NONE	-
Phorate	µg/kg	10	NONE	-
Phosalone	µg/kg	10	NONE	-
P,p'-DDD	µg/kg	10	NONE	-
P,p'-DDE	µg/kg	10	NONE	-
P,p'-DDT	µg/kg	10	NONE	-
P,p'-Methoxychlor	µg/kg	10	NONE	-
Propyzamide	µg/kg	10	NONE	-
Trans-Chlordane	µg/kg	10	NONE	-
Cypermethrin (Sum)	µg/kg	10	NONE	-
Dichlorvos	µg/kg	10	NONE	-
Dimethoate	µg/kg	10	NONE	-
Diazinon	µg/kg	10	NONE	-
Ethion	µg/kg	10	NONE	-
Fenitrothion	µg/kg	10	NONE	-
Malathion	µg/kg	10	NONE	-
Pirimiphos-methyl	µg/kg	10	NONE	-
Trifluralin	µg/kg	10	NONE	-
Azinphos-ethyl	µg/kg	10	NONE	-

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

Analytical Report Number : 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

* 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 *
178181	TP01/SA01	None Supplied	0.1	Brown loam and clay with gravel and vegetation
178182	TP02	None Supplied	0.1	Brown clay and loam with vegetation
178183	TP03/SA02	None Supplied	0.1	Brown loam and clay with gravel and vegetation
178184	TP04	None Supplied	0.1	Brown clay and loam with vegetation
178185	TP05	None Supplied	0.1	Brown loam and clay with gravel and vegetation
178186	TP06	None Supplied	0.15	Brown loam and clay with gravel and vegetation
178187	TP07	None Supplied	0.1	Brown loam and clay with gravel and vegetation
178188	TP08	None Supplied	0.1	Brown clay and loam with vegetation
178189	TP09	None Supplied	0.1	Brown clay and loam with vegetation
178190	TP10	None Supplied	0.1	Brown loam and clay with gravel and vegetation
178191	TP11	None Supplied	0.1	Brown loam and clay with vegetation
178192	TP12	None Supplied	0.1	Brown loam and clay with vegetation
178193	TP13	None Supplied	0.1	Brown loam and clay with vegetation
178194	TP14	None Supplied	0.1	Brown loam and clay with vegetation
178195	TP15	None Supplied	0.1	Brown loam and clay with vegetation
178196	TP16	None Supplied	0.1	Brown loam and clay with vegetation
178197	TP17	None Supplied	0.1	Brown clay and loam with gravel and vegetation
178198	TP18/SA03	None Supplied	0.1	Brown clay and loam with gravel and vegetation
178199	TP19	None Supplied	0.1	Brown loam and clay with gravel and vegetation
178200	TP20	None Supplied	0.1	Brown loam and clay with gravel and vegetation
178201	TP21	None Supplied	0.1	Brown loam and clay with gravel and vegetation
178202	TP22	None Supplied	0.1	Brown clay and loam with vegetation
178203	TP23	None Supplied	0.1	Brown loam and clay with gravel and vegetation
178204	TP24	None Supplied	0.1	Brown clay and loam with gravel and vegetation
178205	TP25	None Supplied	0.1	Brown clay and loam with vegetation
178206	TP26/SA04	None Supplied	0.1	Brown loam and clay with vegetation
178207	TP27	None Supplied	0.1	Brown loam and clay with vegetation
178208	TP28/SA06	None Supplied	0.1	Brown loam and clay with vegetation
178209	TP29	None Supplied	0.1	Brown loam and clay with vegetation
178210	TP21	None Supplied	1.8	Grey clay and sand with coal
178211	TP02	None Supplied	0.6	Brown sandy clay with stones
178212	TP03/SA02	None Supplied	0.8	Brown clay and sand
178213	TP06	None Supplied	0.6	Brown sandy clay
178214	TP07	None Supplied	0.8	Brown clay and sand
178215	TP08	None Supplied	0.7	Brown sandy clay
178216	TP10	None Supplied	0.5	Brown clay and sand
178217	TP12	None Supplied	0.6	Brown clay and sand
178218	TP15	None Supplied	0.8	Brown clay and sand
178219	TP16	None Supplied	0.6	Brown loam and sand with gravel and vegetation
178220	TP19	None Supplied	0.7	Brown clay
178221	TP23	None Supplied	0.9	Brown clay and sand
178222	TP24	None Supplied	0.6	Brown clay and sand
178223	TP25	None Supplied	0.6	Brown clay and sand with gravel
178224	TP26/SA04	None Supplied	0.6	Brown clay and sand
178225	TP27	None Supplied	0.6	Brown clay and sand with vegetation
178226	TP29	None Supplied	0.5	Brown sand

Analytical Report Number : 24-015638

Project / Site name: Land off Thurnscoe Bridge Lane, Thurnscoe

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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
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
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Pesticides by GC-MS/MS	Determination of Pesticides in soil by GC MS/MS	In-house method	L055B	W	NONE
Speciated EPA-16 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
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	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099	D	MCERTS

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.

Inorganic Compounds	Human Health - Residential with Homegrown Produce (mg/kg)
Arsenic	37
Cadmium	11
Chromium (III)	910
Chromium (VI)	6
Lead	200
Mercury	1.2
Nickel	180
Selenium	250
Copper	2400
Zinc	3700

Organic Compounds	Human Health - Residential with Homegrown Produce (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	2.3	5.6	13
Acenaphthene	210	510	1100
Acenaphthylene	170	420	920
Fluorene	170	400	860
Phenanthrene	95	220	440
Anthracene	2400	5400	11000
Fluoranthene	280	560	890
Pyrene	620	1200	2000
Benzo(a)anthracene	7.2	11	13
Chrysene	15	22	27
Benzo(b)fluoranthene	2.6	3.3	3.7
Benzo(k)fluoranthene	77	93	100
Benzo(a)pyrene	2.2	2.7	3.0
Dibenz(a,h)anthracene	0.24	0.28	0.3
Indeno(1,2,3-cd)pyrene	27	36	41
Benzo(g,h,i)perylene	320	340	350
Benzene	0.087	0.17	0.37
Toluene	130	290	660
Ethylbenzene	47	110	260
o-Xylene	60	140	330
m-Xylene	59	140	320
p-Xylene	56	130	310

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Prepared	JDO	Checked	KE	Date	31.05.2024	Job No	48926
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 <p>St Andrew's House 23 Kingfield Road Sheffield, S11 9AS</p> <p>T: 0114 255 4554 E: mail@eastwoodce.com eastwoodce.com</p>	<p>LAND OF THURNSCOE BRIDGE LANE, THURNSCOE</p> <p>AVANT HOMES</p> <p>ASSESSMENT CRITERIA – RESIDENTIAL WITH HOMEGROWN PRODUCE</p>
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Contaminant	Phytotoxicity			
	pH 5.0 to 5.5	pH 5.5 to 6.0	pH 6.0 to 7.0	pH >7.0
Arsenic	50			
Cadmium	3			
Chromium	400			
Lead	300			
Mercury	1			
Nickel	50	60	75	110
Copper	80	100	135	200
Zinc	200	200	200	300

The assessment concentration for lead is the Category 4 Screening Level produced by Contaminated Land: Applications in Real Environments (CL:AIRE) and outlined in Appendix H of their report SP1010. The others have been taken from Nathanail, C. P., McCaffrey, C., Gillett, A., Ogden, R., and Nathanail, J., 2015, 'The LQM/CIEH S4ULs for Human Health Risk Assessment', Land Quality Press, Nottingham. The metals/metalloids are based on a sandy loam soil and 6% soil organic matter. The assessment values are not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. Instead, the modified mean value should be compared with the assessment concentration.

The assessment values for phytotoxicity are the levels at which plant growth is thought to be affected. They are taken from the maximum permissible and advisable concentrations in soil after application of soil sludge given in the 'The Code of Good Agricultural Practice for the Protection of Soil', MAFF, 1998.

The assessment of sulphate, water soluble sulphate, elemental sulphur and sulphide is to determine the aggressive nature of the ground with respect to concrete and consequently the results are compared with BRE Special Digest 1:2005 'Concrete in Aggressive Ground'.

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Prepared	JDO	Checked	KE	Date	31.05.2024	Job No	48926
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TPH Fraction	Intended Land Use Residential (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Aliphatic EC 5-6	42	78	160
Aliphatic EC >6-8	100	230	530
Aliphatic EC >8-10	27	65	150
Aliphatic EC >10-12	130 (48) ^{vap}	330 (118) ^{vap}	760 (283) ^{vap}
Aliphatic EC >12-16	1100 (24) ^{sol}	2400 (59) ^{sol}	4,300 (142) ^{sol}
Aliphatic EC >16-35	65,000 (8.48) ^{f, sol}	92,000 (21) ^{f, sol}	110,000 ^f
Aliphatic EC >35-44	65,000 (8.48) ^{f, sol}	92,000 (21) ^{f, sol}	110,000 ^f
Aromatic EC 5-7	70	140	300
Aromatic EC >7-8	130	290	660
Aromatic EC >8-10	34	83	190
Aromatic EC >10-12	74	180	380
Aromatic EC >12-16	140	330	660
Aromatic EC >16-21	260 ^f	540 ^f	930 ^f
Aromatic EC >21-35	1,100 ^f	1,500 ^f	1,700 ^f
Aromatic EC >35-44	1,100 ^f	1,500 ^f	1,700 ^f

^f oral, dermal, and inhalation exposure compared with oral HCV

^{sol} S4UL presented exceeds the solubility saturation limit, which is presented in brackets

^{vap} S4UL presented exceed the vapour saturation limit, which is presented in brackets

The assessment criteria for each of the petroleum hydrocarbon fractions have been taken from Nathanail, C. P., McCaffrey, C., Gillett, A., Ogden, R., and Nathanail, J., 2015, 'The LQM/CIEH S4ULs for Human Health Risk Assessment', Land Quality Press, Nottingham. These are also all based on a sandy loam soil.

Within the Environment Agency Science Report P5-080/TR3, Askari, K. & Pollard, S., 2005 'The UK Approach for Evaluating Human Health Risks from Petroleum Hydrocarbons in Soils' it is stated that the assessment values should not be considered individually; instead the potential additive effects should be calculated. This is achieved by calculating an individual Hazard Quotient (HQ) for each fraction. The HQ is the proportion of the assessment concentration represented by the recorded concentration. The HQs are then added together to form a Hazard Index (HI) and where this exceeds unity a potential significant risk to human health may exist.

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Appendix 5

Gas & Groundwater Monitoring Results

	Site - 48926, Thurnscoe Date 13.05.2024 Atmospheric Pressure mb 1001 Atmos. Pressure Trend Falling Monitor 13581 Date of Last Calibration 29/01/2024	Key <table style="margin: auto;"> <tr> <td style="text-align: center;">Methane</td> <td style="text-align: center;">Carbon Dioxide</td> </tr> <tr> <td style="text-align: center;">1.0 to 4.9%</td> <td style="text-align: center;">5.0 to 9.9%</td> </tr> <tr> <td style="text-align: center;">5.0 to 19.9%</td> <td style="text-align: center;">10.0 to 29.9%</td> </tr> <tr> <td style="text-align: center;">>20.0%</td> <td style="text-align: center;">>30.0%</td> </tr> </table> <p style="color: blue; text-align: center;">Water within plain pipe section</p>	Methane	Carbon Dioxide	1.0 to 4.9%	5.0 to 9.9%	5.0 to 19.9%	10.0 to 29.9%	>20.0%	>30.0%
Methane	Carbon Dioxide									
1.0 to 4.9%	5.0 to 9.9%									
5.0 to 19.9%	10.0 to 29.9%									
>20.0%	>30.0%									

Hole ID	Methane %		Carbon Dioxide %		Oxygen %		Carbon Monoxide ppm	Hydrogen Sulphide ppm	Flow l/hr		Depth to Water m	Depth to Well Base m	Response Zone m
	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady			
MW01	0	0	1.5	1.5	20.2	20.1	0	0	0	0	1.12	2.93	1.00-2.93
MW02	0	0	0	0	28	22.5	0	0	0	0	0.82	2.51	1.00-2.51
MW03	0	0	0.1	0	24	23.8	0	0	0	0	1.92	2.8	1.00-2.8
MW04	0	0	3.6	3.5	6.9	5.8	0	0	0	0	5.5	5.7	1.00-5.7
MW05	0	0	2.2	2.2	20.1	19.7	0	0	0	0	5.48	5.85	1.00-5.85
MW06	0	0	0.9	0.9	19.5	19.4	0	0	0	0	Dry	5.69	1.00-5.69
MW07	0	0	2	2	19.6	19.6	0	0	0	0	WAB	5.8	1.00-5.8
MW08	0	0	1	0.8	19.5	19.5	0	0	0	0	5.21	5.7	1.00-5.70
MW09	0	0	2.5	2.4	19.2	19.1	0	0	0	0	3.09	5.85	1.00-5.85
MW10	0	0	0.5	0.5	20.1	20.1	0	0	0	0	5.06	5.82	1.00-5.82

Remarks	
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All boreholes, once no longer in use for monitoring, should be decommissioned following the Environment Agency guidance laid out in Section 5.5 of the publication "Guidance on the design and installation of groundwater quality monitoring points", Science Report SC020093, January 2006. This is to remove potential preferential pathways for ground gas migration to future receptors which may be created by the wells.



Site - 48926, Thurnscoe

Date 29/05/2024
 Atmospheric Pressure mb 1006
 Atmos. Pressure Trend Falling

Monitor 10040
 Date of Last Calibration 29/03/2024

Key	
Methane	Carbon Dioxide
1.0 to 4.9%	5.0 to 9.9%
5.0 to 19.9%	10.0 to 29.9%
>20.0%	>30.0%

Water within plain pipe section

Hole ID	Methane %		Carbon Dioxide %		Oxygen %		Carbon Monoxide ppm	Hydrogen Sulphide ppm	Flow l/hr		Depth to Water m	Depth to Well Base m	Response Zone m
	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady			
MW01					Bung Missing						1.01	2.88	1.00-2.88
MW02	0	0	0.4	0.3	20.5	20.5	0	0	0	0	1.31	2.53	1.00-2.53
MW03	0	0	0	0	16.8	16.7	0	0	0.0	0.0	1.18	2.92	1.00-2.92
MW04					Bung Damaged						5.42	5.79	1.00-5.79
MW05					Bung Damaged						5.61	5.88	1.00-5.88
MW06					Bung Missing						5.04	5.73	1.00-5.73
MW07					Bung Missing						5.41	5.89	1.00-5.89
MW08	0	0	0	0	18.2	17.6	0	0	0	0	5.05	5.78	1.00-5.78
MW09					Bung Damaged						3.54	5.86	1.00-5.90
MW10					Bung Damaged						4.69	5.87	1.00-5.90

Remarks

MW01 water bailed to 2.8 m; water level recharged to 1.6 m in 3 hours 25 mins
 ME02 water bailed to 2.3 m; water level recharged in 3 hours
 ME03 water bailed to 2.8 m; water level recharged to 2.5 m in 2 hours
 ME09 water bailed to 4.8 m; water level recharged in 40 mins

All boreholes, once no longer in use for monitoring, should be decommissioned following the Environment Agency guidance laid out in Section 5.5 of the publication "Guidance on the design and installation of groundwater quality monitoring points", Science Report SC020093, January 2006. This is to remove potential preferential pathways for ground gas migration to future receptors which may be created by the wells.



Site - 48926, Thurnscoe

Date 13/06/2024
 Atmospheric Pressure mb 997
 Atmos. Pressure Trend Falling

Monitor 13581
 Date of Last Calibration 29/01/2024

Key

Methane	Carbon Dioxide
1.0 to 4.9%	5.0 to 9.9%
5.0 to 19.9%	10.0 to 29.9%
>20.0%	>30.0%

Water within plain pipe section

Hole ID	Methane %		Carbon Dioxide %		Oxygen %		Carbon Monoxide ppm	Hydrogen Sulphide ppm	Flow l/hr		Depth to Water m	Depth to Well Base m	Response Zone m
	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady			
MW01	0	0	3.6	3.6	17	16	0	0	0	0	1.26	2.93	1.00-2.93
MW02	0	0	0.6	0.6	20.8	20.8	0	0	0.4	0	1.65	2.64	1.00-2.64
MW03	0	0	0	0	18.4	18.4	0	0	0.0	0.0	1.57	2.96	1.00-2.96
MW04	0	0	2.4	2.4	1.5	1.1	0	0	0	0	5.27	5.82	1.00-5.82
MW05	0.0	0.0	3.4	3.4	17.5	17.1	0	0	0.2	0.0	5.64	5.93	1.00-5.93
MW06	0	0	2.6	2.6	18.5	18.2	0	0	0	0	5.16	5.63	1.00-5.63
MW07	0	0	2.4	2.4	18.4	18.3	0	0	0	0	4.73	5.86	1.00-5.86
MW08	0	0	0.2	0	18.3	17.8	0	0	0	0	5.24	5.81	1.00-5.81
MW09	0	0	3.2	3.2	19.2	19.2	0	0	0	0	3.62	5.88	1.00-5.88
MW10	0	0	1.5	1.5	18.7	18.7	0	0	0	0	4.85	5.81	1.00-5.81

Remarks

All boreholes, once no longer in use for monitoring, should be decommissioned following the Environment Agency guidance laid out in Section 5.5 of the publication "Guidance on the design and installation of groundwater quality monitoring points", Science Report SC020093, January 2006. This is to remove potential preferential pathways for ground gas migration to future receptors which may be created by the wells.

			Site - 48926, Thurnscoe Date 27.06.2024 Atmospheric Pressure mb 1003 Atmos. Pressure Trend Falling Monitor 10040 Date of Last Calibration 29/03/2024				Key Methane 1.0 to 4.9% Carbon Dioxide 5.0 to 9.9% 5.0 to 19.9% 10.0 to 29.9% >20.0% >30.0% Water within plain pipe section						
Hole ID	Methane %		Carbon Dioxide %		Oxygen %		Carbon Monoxide ppm	Hydrogen Sulphide ppm	Flow l/hr		Depth to Water m	Depth to Well Base m	Response Zone m
	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady			
MW01	0	0	5.3	5.3	15.2	13.9	0	0	0	0	1.46	2.9	1.00-2.90
MW02	0	0	1.1	0.9	19.7	19.7	0	0	0	0	1.96	2.54	1.00-2.54
MW03	0	0	0.1	0	16.7	15.6	0	0	0	0	1.46	2.98	1.00-2.98
MW04	0	0	3.3	3.3	3.3	0.1	0	0	0	0	5.32	5.86	1.00-5.86
MW05	0	0	4.4	4.4	15.9	15.9	0	0	0	0	5.18	5.89	1.00-5.89
MW06	0	0	3.3	3.3	14.5	14.5	0	0	0	0	5.22	5.62	1.00-5.62
MW07	0	0	2.5	2.5	18.1	18.1	0	0	0	0	4.55	5.8	1.00-5.80
MW08	0	0	2.2	0.4	17.9	17.9	0	0	0	0	5.34	5.8	1.00-5.80
MW09	0	0	4.5	4.5	19.8	19.8	0	0	0	0	4.38	5.82	1.00-5.82
MW10	0	0	3.2	3.2	19.1	19	0	0	0	0	4.62	5.83	1.00-5.83
Remarks	Area becoming overgrown												
All boreholes, once no longer in use for monitoring, should be decommissioned following the Environment Agency guidance laid out in Section 5.5 of the publication "Guidance on the design and installation of groundwater quality monitoring points", Science Report SC020093, January 2006. This is to remove potential preferential pathways for ground gas migration to future receptors which may be created by the wells.													



Site - 48926, Thurnscoe

Date 19/07/2024
 Atmospheric Pressure mb 1005
 Atmos. Pressure Trend Rising

Monitor 13581
 Date of Last Calibration 29/01/2024

Key	
Methane	Carbon Dioxide
1.0 to 4.9%	5.0 to 9.9%
5.0 to 19.9%	10.0 to 29.9%
>20.0%	>30.0%

Water within plain pipe section

Hole ID	Methane %		Carbon Dioxide %		Oxygen %		Carbon Monoxide ppm	Hydrogen Sulphide ppm	Flow l/hr		Depth to Water m	Depth to Well Base m	Response Zone m
	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady			
MW01	0	0	4.6	4.6	16.7	15.9	0	0	0	0	1.79	2.93	1.00-2.93
MW02	0	0	0.9	0.9	20.4	20.4	0	0	0	0	1.95	2.46	1.00-2.46
MW03	0	0	0	0	16.7	16.7	0	0	0	0	1.61	2.94	1.00-2.94
MW04	0	0	1.8	1.8	4.9	3	15	0	0	0	5.52	5.73	1.00-5.73
MW05	0	0	3.1	3.1	16.3	16.3	0	0	0	0	5.72	5.89	1.00-5.89
MW06	0	0	2.2	2.2	18	18	0	0	0	0	5.32	5.7	1.00-5.70
MW07	0	0	3.4	6.4	18.2	18	0	0	0	0	4.8	5.8	1.00-5.8
MW08	0	0	0.1	0.1	19.8	19.7	0	0	0	0	5.62	5.75	1.00-5.75
MW09	0	0	3.3	3.3	19.2	19.1	0	0	0	0	3.83	5.89	1.00-5.89
MW10	0	0	2	2	19.2	18.3	0	0	0	0	5.23	5.82	1.00-5.82

Remarks

All boreholes, once no longer in use for monitoring, should be decommissioned following the Environment Agency guidance laid out in Section 5.5 of the publication "Guidance on the design and installation of groundwater quality monitoring points", Science Report SC020093, January 2006. This is to remove potential preferential pathways for ground gas migration to future receptors which may be created by the wells.



Site - 48926, Thurnscoe

Date 05/08/2024
 Atmospheric Pressure mb 1008
 Atmos. Pressure Trend Steady

Monitor 13581
 Date of Last Calibration 29/01/2024

Key	
Methane	Carbon Dioxide
1.0 to 4.9%	5.0 to 9.9%
5.0 to 19.9%	10.0 to 29.9%
>20.0%	>30.0%

Water within plain pipe section

Hole ID	Methane %		Carbon Dioxide %		Oxygen %		Carbon Monoxide ppm	Hydrogen Sulphide ppm	Flow l/hr		Depth to Water m	Depth to Well Base m	Response Zone m
	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady			
MW01	0	0	5.2	5.2	15.5	15.5	0	0	0	0	2.12	2.93	1.00-2.93
MW02	0	0	0.8	0.8	20.4	20.3	0	0	0	0	2.08	2.46	1.00-2.46
MW03	0	0	0.1	0	17.8	17.7	0	0	0	0	1.66	2.94	1.00-2.94
MW04	0	0	2.1	2.1	5.5	5.5	15	0	0	0	WAB	5.73	1.00-5.73
MW05	0	0	3.2	3.2	17.8	17.8	0	0	0	0	WAB	5.89	1.00-5.89
MW06	0	0	3.4	3.3	18.5	18.4	0	0	0	0	5.66	5.7	1.00-5.70
MW07	0	0	5.5	5.5	18.2	18	0	0	0	0	4.87	5.8	1.00-5.8
MW08	0	0	1.5	1.5	20.1	20.1	0	0	0	0	5.52	5.75	1.00-5.75
MW09	0	0	2.4	2.2	19.8	19.8	0	0	0	0	3.88	5.89	1.00-5.89
MW10	0	0	2.1	2	19.2	18.7	0	0	0	0	5.45	5.82	1.00-5.82

Remarks

MW09 recharged after 120mins
 MW03 recharged after 45mins

All boreholes, once no longer in use for monitoring, should be decommissioned following the Environment Agency guidance laid out in Section 5.5 of the publication "Guidance on the design and installation of groundwater quality monitoring points", Science Report SC020093, January 2006. This is to remove potential preferential pathways for ground gas migration to future receptors which may be created by the wells.

Date	Atmospheric Pressure (mb)	Atmospheric Trend	Relative Humidity (%)	Temp (°C)	Weather
23.04.24	1024	Falling	78	8	Cloud/rain
24.04.24	1017	Falling	68	8	Cloud/rain
25.04.24	1005	Falling	79	8	Cloud/rain
26.04.24	1002	Falling	70	11	Cloud/rain
27.04.24	1003	Rising	81	11	Cloud/rain
28.04.24	1006	Rising	71	12	Cloud/rain
29.04.24	1011	Rising	66	15	Cloud/drizzle
30.04.24	1010	Falling	57	19	Cloud/rain
01.05.24	1011	Rising	69	17	Cloud/rain/wind
02.05.24	1006	Falling	80	16	Cloud/rain/sun
03.05.24	1010	Rising	79	16	Cloud/rain
04.05.24	1010	Steady	73	15	Cloudy
05.05.24	1007	Falling	63	17	Cloud/rain/sun
06.05.24	1007	Steady	70	17	Cloud/rain/sun
07.05.24	1018	Rising	67	17	Cloud/sun
08.05.24	1027	Rising	66	18	Cloud/wind
09.05.24	1028	Rising	61	20	Sun/wind
10.05.24	1025	Falling	62	21	Cloud/sun/wind
11.05.24	1022	Falling	57	23	Cloud/sun
12.05.24	1013	Falling	67	23	Cloud/rain/sun
13.05.24	1005	Falling	66	22	Cloud/sun
14.05.24	1000	Falling	89	17	Cloud/rain
15.05.24	1005	Rising	76	18	Cloud/rain/sun
16.05.24	1008	Falling	70	19	Cloud/rain/sun
17.05.24	1011	Rising	77	18	Cloud/rain
18.05.24	1015	Rising	71	21	Cloud/rain/sun
19.05.24	1016	Rising	61	21	Sunny
20.05.24	1016	Steady	63	18	Cloudy
21.05.24	1012	Falling	60	19	Cloud/sun/wind
22.05.24	1011	Falling	67	18	Cloud/rain/sun
23.05.24	1018	Rising	61	19	Cloud/rain/sun
24.05.24	1021	Rising	67	20	Cloudy
25.05.24	1017	Falling	64	17	Cloud/rain/sun
26.05.24	1010	Falling	76	18	Cloud/thunder/sun
27.05.24	1014	Rising	69	16	Cloud/rain
28.05.24	1016	Falling	72	17	Cloud/rain
29.05.24	1012	Falling	73	18	Cloud/rain
30.05.24	1012	Steady	71	18	Cloud/rain/sun
31.05.24	1015	Rising	66	18	Cloud/rain/sun
01.06.24	1027	Rising	65	18	Cloudy
02.06.24	1027	Steady	59	21	Cloud/sun
03.06.24	1021	Falling	69	19	Cloudy

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**LAND OFF THURNSCOE BRIDGE LANE,
ROTHERHAM**

ATMOSPHERIC CONDITIONS

Date	Atmospheric Pressure (mb)	Atmospheric Trend	Relative Humidity (%)	Temp (°C)	Weather
04.06.24	1016	Falling	69	18	Cloud/rain
05.06.24	1013	Falling	58	17	Cloud/sun
06.06.24	1016	Rising	61	17	Cloud/rain
07.06.24	1013	Falling	64	18	Cloud/drizzle
08.06.24	1013	Steady	53	16	Cloud/sun
09.06.24	1011	Falling	62	15	Cloudy
10.06.24	1012	Rising	66	15	Cloud/rain
11.06.24	1018	Rising	63	15	Cloud/rain/sun
12.06.24	1020	Rising	62	15	Cloudy
13.06.24	1017	Falling	67	16	Cloud/rain
14.06.24	1011	Falling	73	17	Cloud/rain
15.06.24	996	Falling	65	15	Cloud/rain/sun
16.06.24	1000	Rising	62	18	Cloud/rain/sun
17.06.24	1008	Rising	66	19	Cloud/rain/sun
18.06.24	1013	Rising	64	19	Cloud/rain/sun
19.06.24	1017	Rising	68	17	Cloud/rain
20.06.24	1017	Steady	64	19	Cloudy
21.06.24	1018	Rising	65	21	Cloud/sun
22.06.24	1011	Falling	60	21	Cloud/sun
23.06.24	1019	Rising	63	24	Cloud/sun
24.06.24	1019	Steady	62	26	Cloud/sun
25.06.24	1015	Falling	58	26	Cloud/sun
26.06.24	1010	Falling	70	22	Cloud/rain
27.06.24	1007	Falling	64	20	Cloud/sun
28.06.24	1011	Rising	63	20	Cloud/sun
29.06.24	1016	Rising	63	19	Cloudy
30.06.24	1014	Falling	54	17	Cloudy
01.07.24	1014	Steady	69	17	Cloud/rain
02.07.24	1012	Falling	59	17	Cloudy
03.07.24	1006	Falling	66	18	Cloudy
04.07.24	1007	Rising	57	19	Cloudy
05.07.24	1011	Rising	62	19	Cloud/rain
06.07.24	999	Falling	65	17	Cloud/rain
07.07.24	1008	Rising	63	17	Cloud/thunder/sun
08.07.24	1015	Rising	56	20	Cloud/sun
09.07.24	1016	Rising	78	18	Cloud/rain
10.07.24	1014	Falling	73	19	Cloud/rain
11.07.24	1016	Rising	69	19	Cloud/rain
12.07.24	1015	Falling	69	19	Cloud/drizzle
13.07.24	1014	Falling	69	17	Cloudy
14.07.24	1012	Falling	64	21	Cloudy
15.07.24	1011	Falling	65	22	Cloud/rain/sun

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**LAND OFF THURNSCOE BRIDGE LANE,
ROTHERHAM**

ATMOSPHERIC CONDITIONS

Date	Atmospheric Pressure (mb)	Atmospheric Trend	Relative Humidity (%)	Temp (°C)	Weather
16.07.24	1011	Steady	66	21	Cloud/rain/sun
17.07.24	1015	Rising	62	21	Cloud/rain/sun
18.07.24	1015	Steady	61	22	Cloud/sun
19.07.24	1015	Steady	58	22	Cloud/sun
20.07.24	1007	Falling	69	23	Cloud/thunder/sun
21.07.24	1008	Rising	59	19	Cloud/sun
22.07.24	1011	Rising	68	22	Cloud/drizzle
23.07.24	1019	Rising	55	21	Cloud/sun
24.07.24	1022	Rising	54	22	Cloud/sun
25.07.24	1016	Falling	65	21	Cloud/rain
26.07.24	1012	Falling	65	21	Cloud/rain
27.07.24	1013	Rising	58	19	Cloud/sun
28.07.24	1024	Rising	54	24	Cloud/sun
29.07.24	1022	Falling	56	24	Cloud/sun
30.07.24	1020	Falling	55	26	Sunny
31.07.24	1018	Falling	60	24	Cloud/rain
01.08.24	1015	Falling	66	24	Cloud/rain
02.08.24	1012	Falling	59	22	Cloud/drizzle
03.08.24	1007	Falling	55	21	Cloud/sun
04.08.24	1008	Rising	61	20	Cloud
05.08.24	1008	Steady	66	23	Cloud/sun
06.08.24	1006	Falling	63	21	Cloud/rain

Taken from BBC Weather website
Highlighted rows denote gas monitoring visits.

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ATMOSPHERIC CONDITIONS



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