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Borehole Log

Borehole No.
WS315
DRAFT
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords:	505732 - 119276	Hole Type WLS
Location:	London Road, Pulborough RH20 1AT		Level:	41.24mbgl	Scale 1:18
Client:	Barratt Homes Southern Counties		Dates:	23/04/2024 -	Logged By IB

Well	Water Strikes	Samples and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	Information				
						0.20	41.04		Grey silty sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of flint.
		0.50	1ES						Medium dense becoming very dense with depth orangish brown clayey silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
		0.70	2D						
		1.20	S	N:16 (2,1/2,3,4,7)	Water=Dry				
		1.60	3D						
		2.00	C	8,26/34,33 for 150mm	Water=Dry				
						2.30	38.94		End of borehole at 2.30 m

Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. 2. Inspection pit remained dry and stable during excavation. 3. No groundwater encountered. 4. 50mm diameter gas/groundwater monitoring well complete with flush protective cover installed to 2.0m depth on completion. Response zone 1.0m to 2.0m depth. 5. Borehole ceased at 2.3m bgl due to refusal on sandstone.

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Borehole Log

Borehole No.
WS316
DRAFT
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords:	505750 - 119258	Hole Type WLS
Location:	London Road, Pulborough RH20 1AT		Level:	40.33mbgl	Scale 1:18
Client:	Barratt Homes Southern Counties		Dates:	23/04/2024 -	Logged By IB

Well	Water Strikes	Samples and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	Information				
		0.10	1ES						MADE GROUND Grey mottled black silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular and sub-angular aggregate blacktop and flint.
						0.20	40.13		Firm brown very sandy CLAY. Sand is fine to coarse. (HYTHE FORMATION)
		0.60	2D						
		1.20	S	N:11 (1,1/2,3,3,3)	Water=Dry				
		1.60	3D						
						1.80	38.53		Medium dense becoming loose with depth yellowish brown clayey silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
		2.00	S	N:15 (1,1/3,4,4,4)	Water=Dry				
		2.40	4D						
		3.00	S	N:6 (1,2/2,2,1,1)	Water=Dry				
						3.45	36.88		End of borehole at 3.45 m

1
2
3

Remarks
1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. 2. Inspection pit remained dry and stable during excavation. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings.

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Borehole Log

Borehole No.
WS317
DRAFT
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords:	505715 - 119215	Hole Type WLS
Location:	London Road, Pulborough RH20 1AT		Level:	36.99mbgl	Scale 1:18
Client:	Barratt Homes Southern Counties		Dates:	25/04/2024 -	Logged By IB

Well	Water Strikes	Samples and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	Information				
									TOPSOIL Grass over dark brown silty SAND. Sand is fine to coarse.
						0.20	36.79		Soft brown slightly sandy CLAY. Sand is fine to coarse. (HYTHE FORMATION)
		0.40	1ES						
		0.60	2D						
		1.20	S	N:6 (0,1/1,2,1,2)	Water=Dry				
						1.40	35.59		Soft greyish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
						1.60	35.39		Loose greyish brown silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
		1.80	3D						
		2.00	S	N:7 (1,0/1,1,2,3)	Water=Dry				
						2.60	34.39		Very dense greyish brown silty sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse angular to sub-angular of sandstone. (HYTHE FORMATION)
		2.70	4D						
		2.90	C	25,50 for 0mm	Water=Dry				
						2.98	34.01		End of borehole at 2.98 m

Remarks
1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. 2. Inspection pit remained dry and stable during excavation. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings. 5. Borehole ceased at 2.98m bgl due to refusal on sandstone.

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Borehole Log

Borehole No.
WS318
DRAFT
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords:	505791 - 119158	Hole Type WLS
Location:	London Road, Pulborough RH20 1AT		Level:	39.17mbgl	Scale 1:18
Client:	Barratt Homes Southern Counties		Dates:	23/04/2024 -	Logged By IB

Well	Water Strikes	Samples and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	Information				
		0.20	1ES						MADE GROUND Grey silty sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of flint red brick blacktop and aggregate.
						0.30	38.87		Soft brown sandy CLAY. Sand is fine to coarse. (HYTHE FORMATION)
		0.60	2D						
						0.70	38.47		Soft becoming firm with depth orangish brown very sandy CLAY. Sand is fine to coarse. (HYTHE FORMATION)
		1.20	S	N:6 (0,1/1,1,2,2)	Water=Dry				
		1.50	3D						
		2.00	S	N:19 (2,2/3,3,6,7)	Water=Dry				
						2.40	36.77		Dense light brown silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
		2.70	4D						
		3.00	C	N:42 (7,9/10,10,10,12)	Water=Dry				
						3.45	35.72		End of borehole at 3.45 m

1
2
3

Remarks
1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. 2. Inspection pit remained dry and stable during excavation. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings.

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Borehole Log

Borehole No.
WS319
DRAFT
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords:	505811 - 119231	Hole Type WLS
Location:	London Road, Pulborough RH20 1AT		Level:	41.20mbgl	Scale 1:18
Client:	Barratt Homes Southern Counties		Dates:	23/04/2024 -	Logged By IB

Well	Water Strikes	Samples and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	Information				
									TOPSOIL Grass over brown silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of flint.
						0.20	41.00		Soft brown very sandy CLAY. Sand is fine to coarse. (HYTHE FORMATION)
		0.30	1ES						
		0.80	2D						
		1.20	S	N:7 (0,0/0,2,3,2)	Water=Dry				
						1.40	39.80		Very loose becoming very dense with depth orangish brown clayey silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
		1.60	3D						
		2.00	S	N:1 (0,0/0,0,1,0)	Water=Dry				
		2.40	4D						
		3.00	C	N:70 (10,10/13,12,15,30)	Water=Dry				
						3.45	37.75		End of borehole at 3.45 m

Remarks
1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. 2. Inspection pit remained dry and stable during excavation. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings.

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Borehole Log

Borehole No.
WS320
DRAFT
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords:	505852 - 119078	Hole Type WLS
Location:	London Road, Pulborough RH20 1AT		Level:	39.29mbgl	Scale 1:18
Client:	Barratt Homes Southern Counties		Dates:	23/04/2024 -	Logged By IB

Well	Water Strikes	Samples and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	Information				
		0.10	1ES						TOPSOIL Grass over dark brown silty SAND. Sand is fine to coarse.
						0.40	38.89		
		0.50	2D						Loose becoming very dense with depth yellowish brown very clayey very silty slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
		1.20	S	N:7 (2,2/2,2,1,2)	Water=Dry				
									Band of brown silty SAND.
		1.60	3D						
		2.00	C	5,12/16,22,22 for 225mm	Water=Dry				
						2.38	36.91		End of borehole at 2.38 m

Remarks
1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. 2. Inspection pit remained dry and stable during excavation. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings. 5. Borehole ceased at 2.38m bgl due to refusal on sandstone.

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Borehole Log

Borehole No.
WS321
DRAFT
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords:	505856 - 119157	Hole Type WLS
Location:	London Road, Pulborough RH20 1AT		Level:	42.40mbgl	Scale 1:18
Client:	Barratt Homes Southern Counties		Dates:	23/04/2024 -	Logged By IB

Well	Water Strikes	Samples and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	Information				
		0.20	1ES						MADE GROUND Dark grey silty sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of flint red brick concrete and blacktop.
						0.40	42.00		
		0.80	2D						Firm brown very sandy CLAY. Sand is fine to coarse. (HYTHE FORMATION)
		1.20	S	N:12 (0,1/2,3,3,4)	Water=Dry				
						1.30	41.10		
		1.70	3D						Very dense orangish brown clayey silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
		1.70	C	9,10/13,16,30 for 225mm	Water=Dry				
						2.08	40.32		End of borehole at 2.08 m

1
2
3

Remarks
1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. 2. Inspection pit remained dry and stable during excavation. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings. 5. Borehole ceased at 2.08m bgl due to refusal on sandstone.

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Borehole Log

Borehole No.
WS322
DRAFT
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords:	505834 - 119192	Hole Type WLS
Location:	London Road, Pulborough RH20 1AT		Level:	41.78mbgl	Scale 1:18
Client:	Barratt Homes Southern Counties		Dates:	23/04/2024 -	Logged By IB

Well	Water Strikes	Samples and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	Information				
		0.10	1ES						MADE GROUND Reddish brown silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of flint red brick concrete blacktop and aggregate.
						0.50	41.28		Firm brown sandy CLAY. Sand is fine to coarse. (HYTHE FORMATION)
		0.80	2D						
		1.20	S	N:8 (0,0/2,1,2,3)	Water=Dry				
						1.40	40.38		Very dense yellowish brown clayey silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
		1.50	3D						
		1.60	C	N:65 (10,18/15,16,17,17)	Water=Dry				
						2.05	39.73		End of borehole at 2.05 m

1
2
3

Remarks
1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. 2. Inspection pit remained dry and stable during excavation. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings. 5. Borehole ceased at 2.05m bgl due to refusal on sandstone.

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Borehole Log

Borehole No.
WS323
DRAFT
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords:	505819 - 119297	Hole Type WLS
Location:	London Road, Pulborough RH20 1AT		Level:	45.01mbgl	Scale 1:18
Client:	Barratt Homes Southern Counties		Dates:	22/04/2024 -	Logged By IB

Well	Water Strikes	Samples and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	Information				
		0.10	1ES						MADE GROUND Grey silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded aggregate blacktop and flint.
						0.30	44.71		Brown silty SAND. Sand is fine to coarse. (HYTHE FORMATION)
						0.60	44.41		Medium dense becoming very dense with depth orangish brown clayey silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
		0.80	2D						
		1.20	S	N:13 (0,1,/1,2,4,6)	Water=Dry				
		1.60	3D						
		2.00	S	N:7 (1,1/1,1,1,4)	Water=Dry				
		2.30	4D						
		2.50	C	7,19/53 for 75mm	Water=Dry	2.50	42.51		End of borehole at 2.73 m

Remarks
1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. 2. Inspection pit remained dry and stable during excavation. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings. 5. Borehole ceased at 2.73m bgl due to refusal on sandstone.

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Borehole Log

Borehole No.
WS324
DRAFT
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords:	505708 - 119401	Hole Type WLS
Location:	London Road, Pulborough RH20 1AT		Level:	48.16mbgl	Scale 1:18
Client:	Barratt Homes Southern Counties		Dates:	22/04/2024 -	Logged By IB

Well	Water Strikes	Samples and In Situ Testing				Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results	Information				
						0.10	48.06		TOPSOIL Grass over soft black silty SAND. Sand is fine to coarse.
		0.30	1ES						Medium dense becoming loose with depth yellowish brown clayey silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
		0.70	2D						
		1.20	S	N:12 (3,3/3,3,4,2)	Water=Dry				
		1.50	3D						
		2.00	S	N:10 (1,2/3,2,3,2)	Water=Dry				
		3.00	S	N:8 (1,1/2,2,2,2)	Water=Dry				
						3.45	44.71		End of borehole at 3.45 m

1
2
3

Remarks
1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation. 2. Inspection pit remained dry and stable during excavation. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings.

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Trial Pit Log

Trialpit No
HA301
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505403 - 119346 Level: 36.30
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.60	0.2 / 0.2
Client:	Barratt Homes Southern Counties		

Date: 24/04/2024
Scale: 1:10
Logged: KM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.15	36.15		CONCRETE: Matrix dominated. Gravel of fine to medium sub rounded flint.
	0.20	ES					MADE GROUND: Light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to course subangular flint and concrete and occasional fine to whole brick.
				0.55	35.75		
	0.60	D		0.60	35.70		Orange mottled brown clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse sub rounded sandstone. (HYTHE FORMATION)
							End of pit at 0.60 m

Remarks: Position scanned with a CAT, Genny and GPR prior to excavation. Backfilled with arisings upon completion.

Stability: Unstable

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Trial Pit Log

Trialpit No
HA302
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505415 - 119351 Level: 36.39
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.35	0.2 / 0.2
Client:	Barratt Homes Southern Counties		

Date: 24/04/2024
Scale: 1:10
Logged: KM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							CONCRETE: Matrix dominated. Gravel of fine to medium sub rounded flint.
	0.25	ES		0.20	36.19		MADE GROUND: Brown very gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular flint, concrete and fine to whole brick.
				0.35	36.04		End of pit at 0.35 m

Remarks: Position scanned with a CAT, Genny and GPR prior to excavation. Backfilled with arisings upon completion. Terminated due to brick at base.

Stability: Unstable

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Trial Pit Log

Trialpit No
HA303
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505458 - 119369 Level: 40.46	Date 24/04/2024
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.70	0.2 / 0.2	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged KM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.25	ES					MADE GROUND : Brown gravelly sand. Gravel is fine to coarse subangular to sub rounded flint, concrete and fine brick.
	0.30	ES					*Possible ACM (black material) found at 0.30m.*
				0.40	40.06		Concrete over a rubble layer
				0.45	40.01		Grey slightly mottled orange slightly clayey SAND. Sand is fine to medium. (HYTHE FORMATION)
	0.65	D					
				0.70	39.76		End of pit at 0.70 m

Remarks: Position scanned with a CAT, Genny and GPR prior to excavation. Backfilled with arisings upon completion.

Stability: Stable

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Trial Pit Log

Trialpit No
HA304
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505488 - 119351 Level: 40.60	Date 25/04/2024
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.50 (0.2 × 0.2)		Scale 1:10
Client:	Barratt Homes Southern Counties			Logged IB

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10	40.50		CONCRETE
				0.15	40.45		SUBBASE Gravel of flint
	0.20	ES		0.30	40.30		Grey mottled orangish brown silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone (HYTHE FORMATION)
	0.40	D		0.50	40.10		Orangish brown silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
							End of pit at 0.50 m

Remarks: Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
Trial pit backfilled with arisings in reverse order upon completion.

Stability: Stable

AGS

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Trial Pit Log

Trialpit No
HA305
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505475 - 119261 Level: 35.93
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.50	0.2 × 0.2
Client:	Barratt Homes Southern Counties		

Date: 24/04/2024
Scale: 1:10
Logged: KM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES		0.15	35.78		TOPSOIL: Brown gravelly sandy CLAY. Gravel is fine to medium flint and fine chalk.
	0.30	D		0.50	35.43		Brown mottled orange clayey SAND. Sand is fine to coarse. (HYTHE FORMATION)
							End of pit at 0.50 m

Remarks: Position scanned with a CAT, Genny and GPR prior to excavation. Backfilled with arisings upon completion.

Stability: Stable

AGS

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Trial Pit Log

Trialpit No
HA307
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505556 - 119210 Level: 34.53
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.30	Date 25/04/2024 Scale 1:10
Client:	Barratt Homes Southern Counties		Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.05	ES		0.10	34.43		Grass over TOPSOIL.
				0.30	34.23		Orange slightly gravelly silty very sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse angular to sub-rounded of sandstone. (HYTHE FORMATION)
							End of pit at 0.30 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA308
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505551 - 119307 Level: 40.60	Date 24/04/2024
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.35	0.2 / 0.2	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged KM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES					MADE GROUND: Brown very gravelly SAND. Gravel is fine to coarse, sub angular to sub rounded flint, concrete and chalk. Slight organic odour.
	0.30	D		0.25	40.35		Brown slightly clayey SAND. Sand is fine to medium. Occasional gravels of sandstone. (HYTHE FORMATION)
				0.35	40.25		End of pit at 0.35 m

Remarks: Position scanned with a CAT, Genny and GPR prior to excavation. Backfilled with arisings upon completion.

Stability: Stable

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Trial Pit Log

Trialpit No
HA309
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505578 - 119289 Level: 40.41	Date 24/04/2024
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.55	0.2 / 0.2	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged KM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES					TOPSOIL: Brown fine to coarse SAND.
				0.30	40.11		*Membrane found at 0.29m* Yellow occasionally gravelly SAND. Gravel is extremely weak medium rounded sandstone. (HYTHE FORMATION)
	0.50	D					
				0.55	39.86		End of pit at 0.55 m

Remarks: Position scanned with a CAT, Genny and GPR prior to excavation. Backfilled with arisings upon completion.

Stability: Stable

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Trial Pit Log

Trialpit No
HA310
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505590 - 119227 Level: 35.69
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.30	Date 25/04/2024 Scale 1:10
Client:	Barratt Homes Southern Counties		Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES		0.15	35.54		Grass over TOPSOIL.
				0.30	35.39		Orangish brown slightly gravelly, silty, very sandy CLAY. Gravel is angular to subangular, fine to medium occasional sandstone. (HYTHE FORMATION)
							End of pit at 0.30 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA311
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505601 - 119409 Level: 45.04	Date 24/04/2024
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.15	0.2 / 0.2	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged KM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES		0.15	44.89		MADE GROUND: Brown very gravelly sand. Gravel is fine to coarse, sub rounded to angular flint, brick and concrete, with black gravel (clinker?) .
							Slight organic odour and black staining at base of pit at 0.14m.
							End of pit at 0.15 m

Remarks: Position scanned with a CAT, Genny and GPR prior to excavation. Backfilled with arisings upon completion. Terminated due to brick layer at base.

Stability: Stable

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Trial Pit Log

Trialpit No
HA312
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505691 - 119315 Level: 42.37	Date 25/04/2024
Location:	London Road, Pulborough RH20 1AT		Dimensions (m): Depth 0.60	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.15	ES		0.25	42.12		MADE GROUND: Brown slightly gravelly CLAY. Gravel is angular to subangular, fine to medium flint, possible road plannings, roots (<2mm) and occasional granite chips.
	0.40	D		0.60	41.76		Orange slightly gravelly very sandy CLAY. Gravel is angular to subangular fine to medium sandstone. (HYTHE FORMATION) End of pit at 0.60 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA313
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505686 - 119259 Level: 39.07	Date 25/04/2024
Location:	London Road, Pulborough RH20 1AT		Dimensions (m): Depth 0.60	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES					MADE GROUND: Brown very gravelly, sandy CLAY. Gravel is angular to subangular, fine to coarse brick, type 1 MOT and whole brick.
				0.20	38.87		
	0.40	D					Orange very sandy slightly gravelly CLAY. Gravel is angular to subangular fine to medium sandstone. (HYTHE FORMATION)
				0.60	38.47		End of pit at 0.60 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA314
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505658 - 119212 Level: 35.87
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.70	Date 25/04/2024 Scale 1:10
Client:	Barratt Homes Southern Counties		Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES		0.15	35.72		TOPSOIL: Grass over brown slightly gravelly silty CLAY topsoil. Gravel is angular to subangular fine to medium sandstone.
				0.70	35.17		Orangish brown gravelly sandy CLAY. Gravel is angular to subangular fine to coarse flint, sandstone and occasional flint cobble. (HEAD DEPOSITS)
							End of pit at 0.70 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA315
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505659 - 119420 Level: 47.08
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.45	0.2 / 0.2
Client:	Barratt Homes Southern Counties		

Date: 24/04/2024
Scale: 1:10
Logged: KM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.15	ES					MADE GROUND: Brown gravelly sand. Gravel is find to medium, sub angular to angular flint, brick, chalk, concrete. Sand is fine to medium. Less gravelly from 0.2m.
	0.40	D		0.35	46.73		Orangish brown clayey SAND with occasional gravels of extremely weak coarse sandstone. Sand is fine to coarse. (HYTHE FORMATION)
				0.45	46.63		End of pit at 0.45 m

Remarks: Position scanned with a CAT, Genny and GPR prior to excavation. Backfilled with arisings upon completion.

Stability: Stable

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Trial Pit Log

Trialpit No
HA316
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505749 - 119421 Level: 50.90
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.80	
Client:	Barratt Homes Southern Counties		

Date 22/04/2024
Scale 1:10
Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES		0.15	50.75		MADE GROUND: Brown gravelly clay. Gravel is angular to subrounded, medium to course flint and road plannings.
				0.80	50.10		Orange slightly gravelly silty SAND. Gravel is angular to sub angular, medium to coarse sandstone. (HYTHE FORMATION) End of pit at 0.80 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA317
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505782 - 119235 Level: 40.11	Date 22/04/2024
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.80		Scale 1:10
Client:	Barratt Homes Southern Counties			Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05	40.06		Grass over TOPSOIL.
	0.20	ES					MADE GROUND: Brown very gravelly CLAY. Gravel is angular to subangular, fine to coarse flint, brick and occasional type 1 MOT.
				0.30	39.81		Orangish brown gravelly very sandy CLAY. Gravel is angular to subrounded, medium to coarse flint. (HEAD DEPOSITS)
	0.50	D					
				0.80	39.31		End of pit at 0.80 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA318
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505734 - 119163 Level: 36.59	Date 25/04/2024
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.30 (0.2 × 0.2)		Scale 1:10
Client:	Barratt Homes Southern Counties			Logged IB

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10	36.49		TOPSOIL: Grass over dark brown silty SAND. Sand is fine to coarse.
	0.20	ES					Dark brown very silty SAND. Sand is fine to coarse. (HYTHE FORMATION)
				0.30	36.29		End of pit at 0.30 m

Remarks: Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
Trial pit backfilled with arisings in reverse order upon completion.

Stability: Stable

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Trial Pit Log

Trialpit No
HA319
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505820 - 119489 Level: 54.39	Date 23/04/2024
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.30		Scale 1:10
Client:	Barratt Homes Southern Counties			Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.05	ES		0.10	54.29		MADE GROUND: Scorched topsoil over slightly gravelly CLAY with occasional glass fragment, metal and wood.
	0.15	D					Firm orange slightly gravelly sandy CLAY. Gravel is angular to subangular fine to medium occasional sandstone. (HYTHE FORMATION)
				0.30	54.09		End of pit at 0.30 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA320
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505880 - 119508 Level: 56.59	Date 23/04/2024
Location:	London Road, Pulborough RH20 1AT		Dimensions (m): Depth 0.60	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES					TOPSOIL: Grass over slightly gravelly sandy CLAY. Gravel is angular to subangular fine sandstone. (HYTHE FORMATION)
	0.35	D		0.30	56.29		Firm to stiff orange slightly gravelly sandy CLAY. Gravel is angular to subangular fine to medium occasional sandstone. (HYTHE FORMATION)
				0.60	55.99		End of pit at 0.60 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA321
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505897 - 119471 Level: 57.55
Date	23/04/2024		
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.50	Scale 1:10
Client:	Barratt Homes Southern Counties		Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES					TOPSOIL: Grass over slightly gravelly, sandy CLAY. Gravel is angular to subangular fine sandstone. (HYTHE FORMATION)
				0.30	57.25		
	0.40	D					Firm to stiff orange slightly gravelly sandy CLAY. Gravel is angular to subangular fine to medium occasional sandstone. (HYTHE FORMATION)
				0.50	57.05		End of pit at 0.50 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA322
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505806 - 119436 Level: 53.45
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.90	Date 23/04/2024 Scale 1:10
Client:	Barratt Homes Southern Counties		Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20	ES		0.40	53.05		TOPSOIL: Grass over brown sandy slightly gravelly CLAY. Gravel is angular to subangular fine to coarse sandstone with occasional sandstone cobble (100mm). (HYTHE FORMATION)
	0.60	D		0.90	52.55		Orange slightly gravelly sandy CLAY. Gravel is angular to subangular medium to coarse sandstone. (HYTHE FORMATION)
							End of pit at 0.90 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA323
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505848 - 119411 Level: 52.91	Date 23/04/2024
Location:	London Road, Pulborough RH20 1AT		Dimensions (m): Depth 1.00	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.15	ES					TOPSOIL: Grass over slightly gravelly sandy CLAY. Gravel is angular to subangular, fine to medium sandstone and rare brick fragment.
	0.80	D		0.70	52.20		Firm orange slightly gravelly sandy CLAY. Gravel is angular to subangular fine to coarse sandstone. (HYTHE FORMATION)
				1.00	51.90		End of pit at 1.00 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA324
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505811 - 119367 Level: 48.63
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.80	Date 22/04/2024 Scale 1:10
Client:	Barratt Homes Southern Counties		Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.01	D		0.02	48.61		Type 1 MOT with some road plannings. MADE GROUND: Brown slightly gravelly clay. Gravel is angular to subangular, medium brick fragments.
	0.30	ES					
				0.50	48.13		Orange slightly gravelly silty sandy CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of sandstone. (HYTHE FORMATION)
	0.60	D					
				0.80	47.83		End of pit at 0.80 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA325
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505803 - 119314 Level: 45.30	Date 22/04/2024
Location:	London Road, Pulborough RH20 1AT		Dimensions (m): Depth 0.90	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.02	45.28		Type 1 MOT with some road plannings. MADE GROUND: Orangish brown slightly gravelly silty CLAY. Gravel is angular to subangular medium occasional brick fragments.
	0.35	ES					
				0.50	44.80		Orange soft silty sandy CLAY. (HYTHE FORMATION)
	0.70	D					
				0.90	44.40		End of pit at 0.90 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA326
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505834 - 119157 Level: 41.51	Date 23/04/2024
Location:	London Road, Pulborough RH20 1AT		Dimensions (m): Depth 0.60	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05	41.46		Compacted stone including type 1 MOT and flint.
	0.15	ES					MADE GROUND: Brown very gravelly sandy CLAY. Gravel is angular to subangular medium to coarse flint concrete and type 1 MOT.
	0.30	D		0.25	41.26		Firm orangish brown slightly gravelly CLAY. Gravel is angular to subangular medium to coarse flint and sandstone. (HYTHE FORMATION)
				0.60	40.91		End of pit at 0.60 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA327
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505795 - 119114 Level: 39.01	Date 23/04/2024
Location:	London Road, Pulborough RH20 1AT		Dimensions (m): Depth 0.60	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES		0.15	38.86		TOPSOIL: Grass over brown sandy silty CLAY. Sand is fine and medium.
	0.30	D		0.60	38.41		Firm orangish brown very sandy silty CLAY. Sand is fine and medium. (HYTHE FORMATION)
							End of pit at 0.60 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA328
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505850 - 119113 Level: 41.25	Date 23/04/2024
Location:	London Road, Pulborough RH20 1AT		Dimensions (m): Depth 0.60	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged PM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES		0.15	41.10		TOPSOIL: Grass over brown sandy silty CLAY. Sand is fine and medium.
	0.30	D		0.60	40.65		Firm orangish brown very sandy silty CLAY. Sand is fine to coarse. (HYTHE FORMATION) End of pit at 0.60 m

Remarks:

Stability: Stable

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Trial Pit Log

Trialpit No
HA329
Sheet 1 of 1

Project Name:	New Place Farm, Pulborough	Project No. LP3646	Co-ords: 505455 - 119306 Level: 38.15	Date 24/04/2024
Location:	London Road, Pulborough RH20 1AT	Dimensions (m): Depth 0.50	0.2 / 0.2	Scale 1:10
Client:	Barratt Homes Southern Counties			Logged KM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES					MADE GROUND : Light brown gravelly SAND. Sand is coarse. Gravel is fine to coarse sub rounded to sub angular flint, occasional chalk and fine brick.
				0.20	37.95		Light brown gravelly SAND. Gravel of medium to coarse sandstone. Sand is fine. (HYTHE FORMATION)
	0.40	D		0.35	37.80		Brown slightly mottled grey very clayey SAND. Sand is fine to coarse. (HYTHE FORMATION)
				0.50	37.65		End of pit at 0.50 m

Remarks: Position scanned with a CAT, Genny and GPR prior to excavation. Backfilled with arisings upon completion.

Stability: Stable

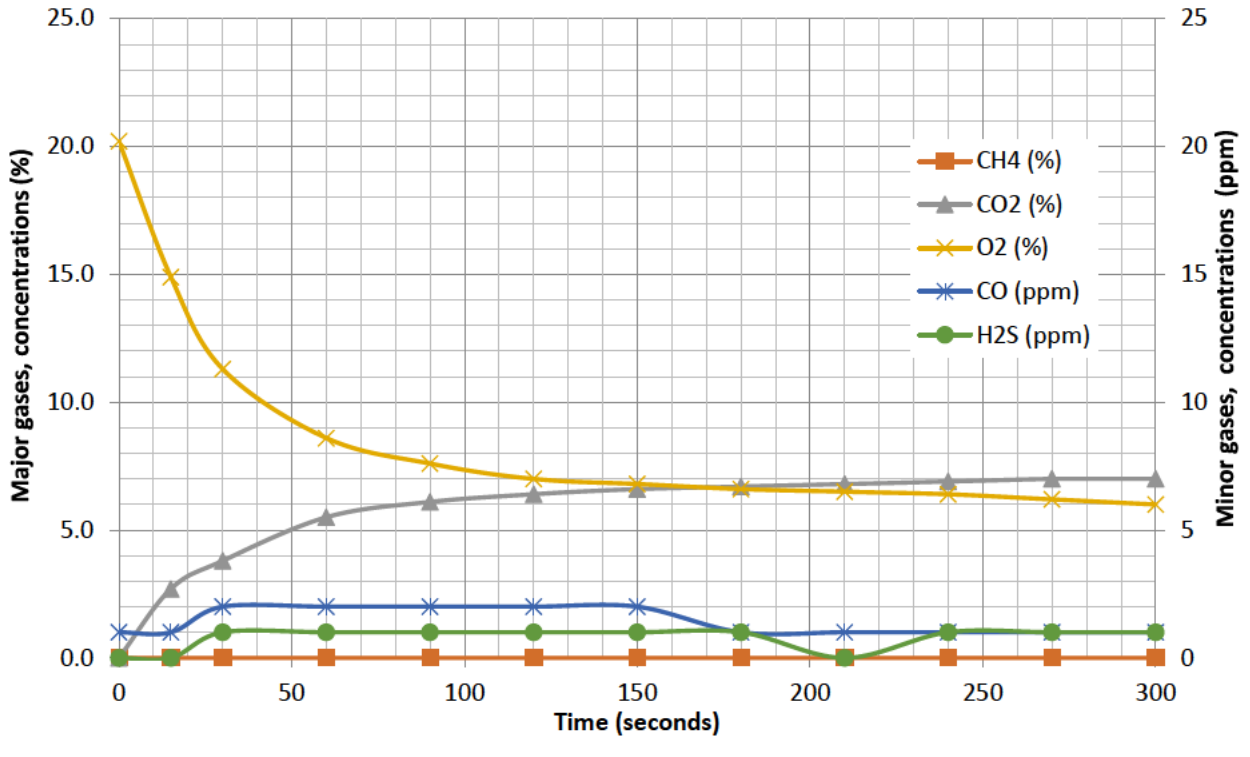
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APPENDIX F – GROUNDWATER AND GROUND GAS MONITORING RECORDS

Continuous Gas Monitoring Record

Date	02/05/2024	Engineer	TP
Project No	LP3646	Temp °C	10
Site	New Place Farm	Ambient Pressure (mb)	1000

		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS7		00:00	-0.1	0.0	0.0	20.2	1	0
Hole ID		00:15	-0.1	0.0	2.7	14.9	1	0
VOC peak (ppm)	0.1	00:30	-0.1	0.0	3.8	11.3	2	1
		01:00	-0.1	0.0	5.5	8.6	2	1
VOC steady (ppm)	0.1	01:30	0.0	0.0	6.1	7.6	2	1
		02:00	0.0	0.0	6.4	7.0	2	1
Borehole Depth (mbgl)	2.58	02:30	0.0	0.0	6.6	6.8	2	1
		03:00	0.0	0.0	6.7	6.6	1	1
Water level (mbgl)	Dry	03:30	0.0	0.0	6.8	6.5	1	0
		04:00	0.0	0.0	6.9	6.4	1	1
Borehole Pressure (mb)	-0.04	04:30	0.0	0.0	7.0	6.2	1	1
		05:00	0.0	0.0	7.0	6.0	1	1



Continuous Gas Monitoring Record

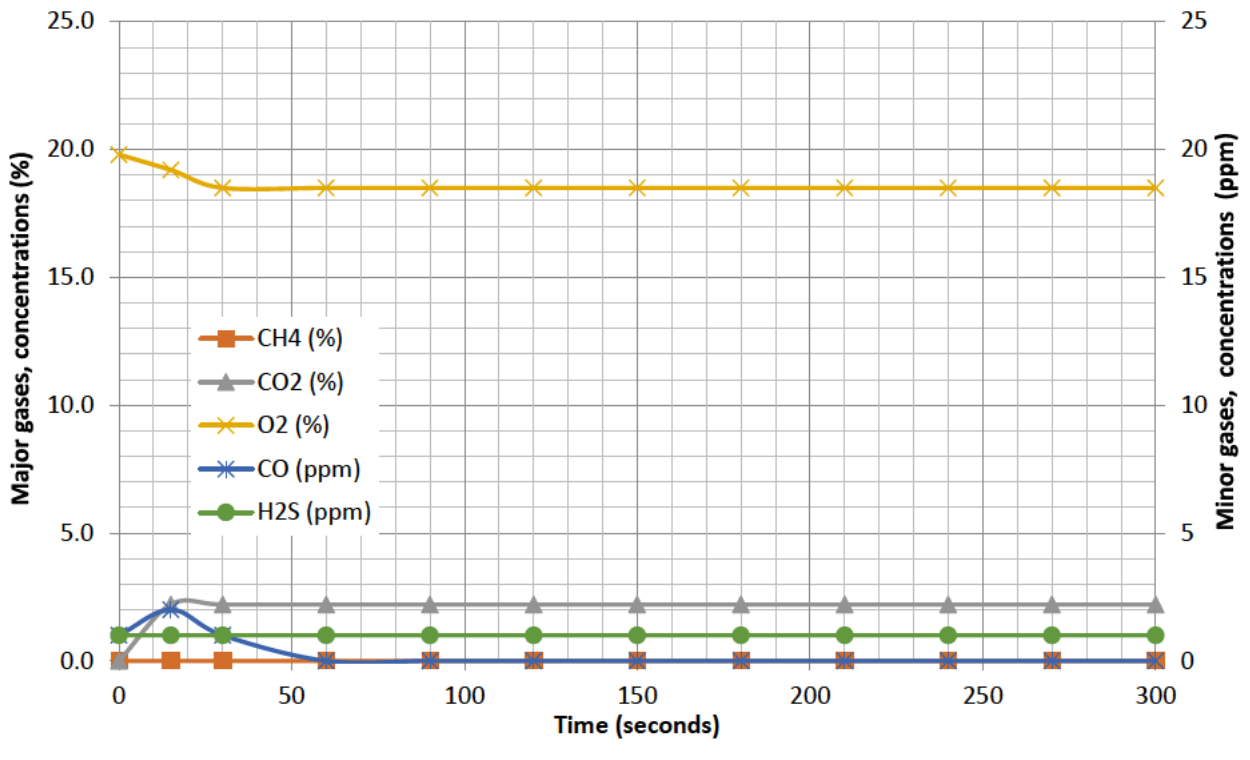
Date	02/05/2024	Engineer	TP
Project No	LP3646	Temp °C	10
Site	New Place Farm	Ambient Pressure (mb)	1000

WS201

Hole ID

VOC peak (ppm)	0.0
VOC steady (ppm)	0.0
Borehole Depth (mbgl)	2.05
Water level (mbgl)	Dry
Borehole Pressure (mb)	0.44

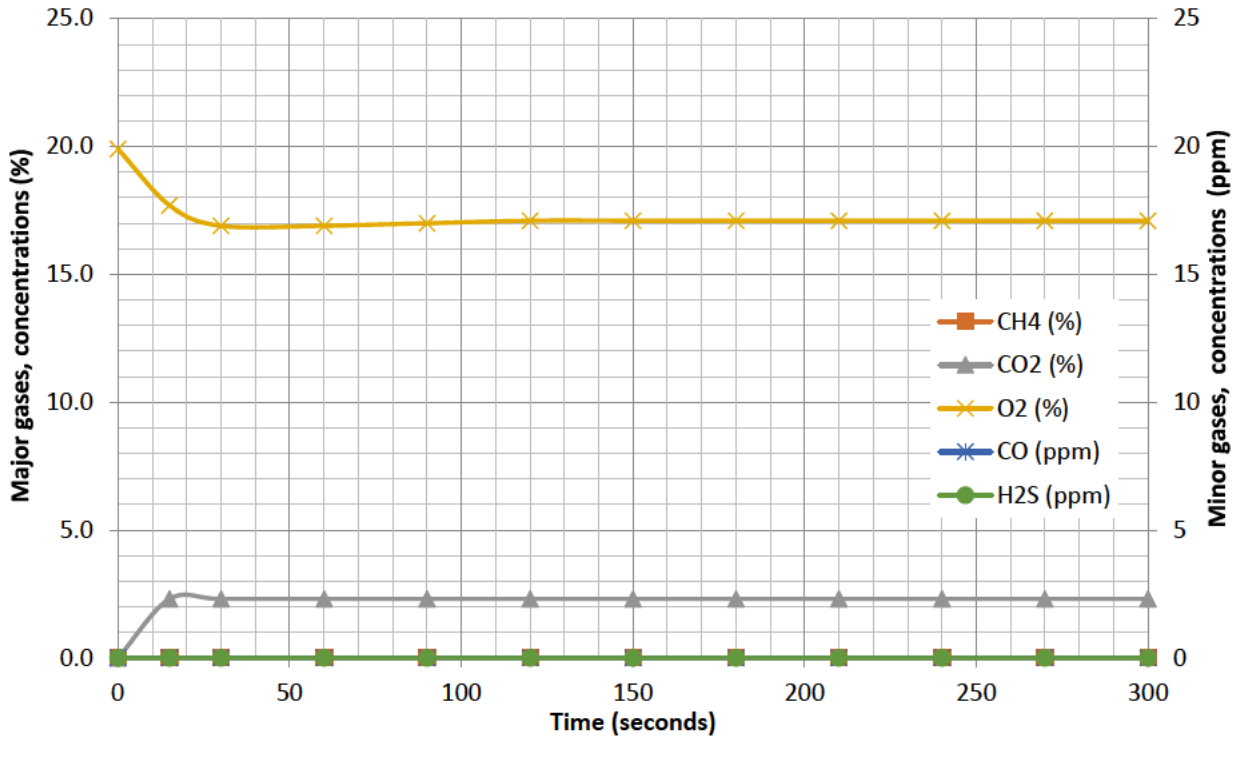
Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
00:00	0.0	0.0	0.0	19.8	1	1
00:15	0.1	0.0	2.2	19.2	2	1
00:30	0.0	0.0	2.2	18.5	1	1
01:00	0.0	0.0	2.2	18.5	0	1
01:30	0.0	0.0	2.2	18.5	0	1
02:00	0.0	0.0	2.2	18.5	0	1
02:30	0.0	0.0	2.2	18.5	0	1
03:00	0.0	0.0	2.2	18.5	0	1
03:30	0.0	0.0	2.2	18.5	0	1
04:00	0.0	0.0	2.2	18.5	0	1
04:30	0.0	0.0	2.2	18.5	0	1
05:00	0.0	0.0	2.2	18.5	0	1



Continuous Gas Monitoring Record

Date	02/05/2024	Engineer	TP
Project No	LP3646	Temp °C	10
Site	New Place Farm	Ambient Pressure (mb)	1000

		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS202		00:00	0.1	0.0	0.0	19.9	0	0
Hole ID		00:15	0.0	0.0	2.3	17.7	0	0
VOC peak (ppm)	0.1	00:30	0.0	0.0	2.3	16.9	0	0
		01:00	0.0	0.0	2.3	16.9	0	0
VOC steady (ppm)	0.0	01:30	0.0	0.0	2.3	17.0	0	0
		02:00	0.0	0.0	2.3	17.1	0	0
Borehole Depth (mbgl)	1.49	02:30	0.0	0.0	2.3	17.1	0	0
		03:00	0.0	0.0	2.3	17.1	0	0
Water level (mbgl)	Dry	03:30	0.0	0.0	2.3	17.1	0	0
		04:00	0.0	0.0	2.3	17.1	0	0
Borehole Pressure (mb)	3.57	04:30	0.0	0.0	2.3	17.1	0	0
		05:00	0.0	0.0	2.3	17.1	0	0



Continuous Gas Monitoring Record

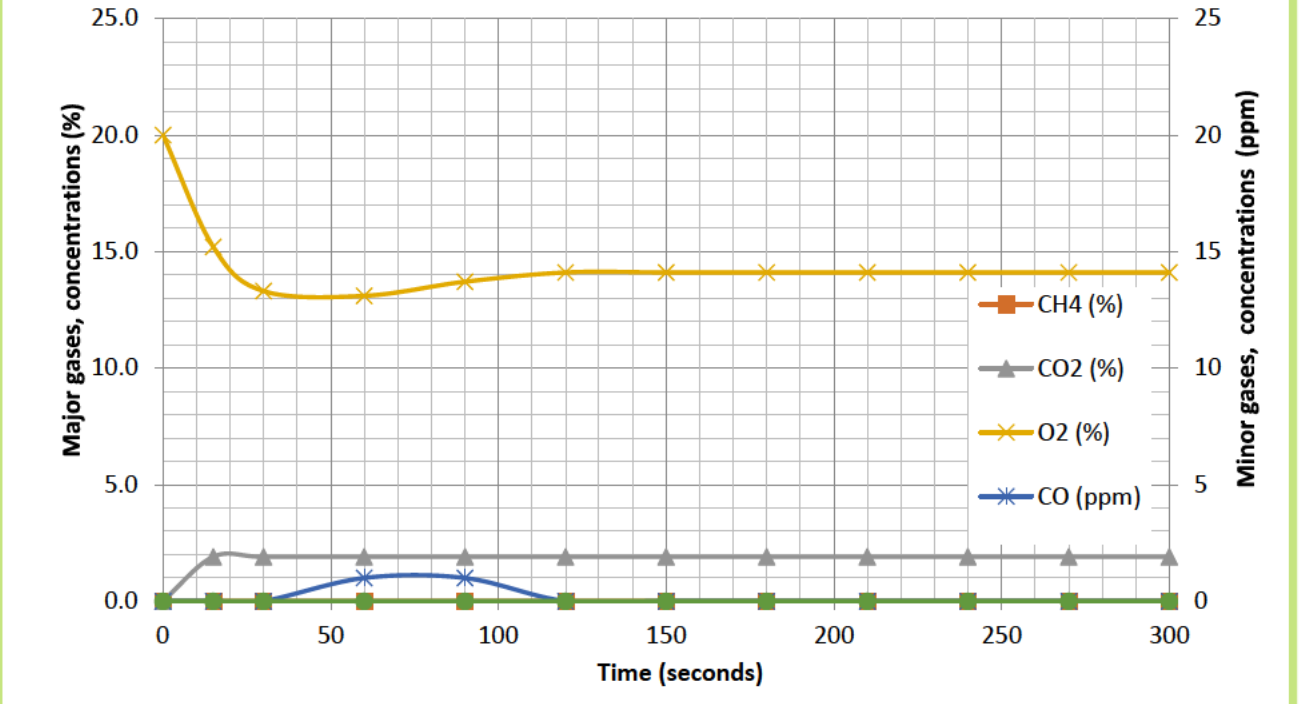
Date	02/05/2024	Engineer	TP
Project No	LP3646	Temp °C	10
Site	New Place Farm	Ambient Pressure (mb)	1000

WS203

Hole ID

VOC peak (ppm)	0.0
VOC steady (ppm)	0.0
Borehole Depth (mbgl)	1.57
Water level (mbgl)	Dry
Borehole Pressure (mb)	-11.21

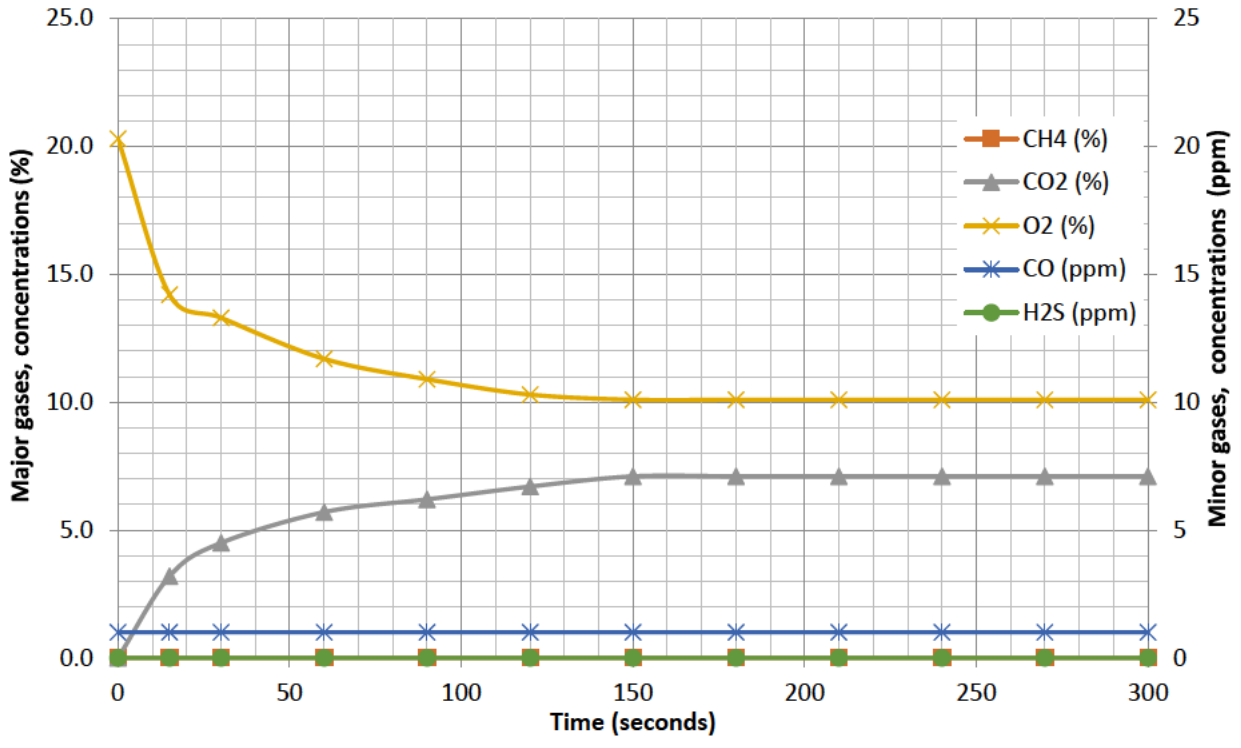
Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
00:00	0.0	0.0	0.0	20.0	0	0
00:15	0.0	0.0	1.9	15.2	0	0
00:30	0.2	0.0	1.9	13.3	0	0
01:00	0.0	0.0	1.9	13.1	1	0
01:30	0.0	0.0	1.9	13.7	1	0
02:00	0.0	0.0	1.9	14.1	0	0
02:30	0.0	0.0	1.9	14.1	0	0
03:00	0.0	0.0	1.9	14.1	0	0
03:30	0.0	0.0	1.9	14.1	0	0
04:00	0.0	0.0	1.9	14.1	0	0
04:30	0.0	0.0	1.9	14.1	0	0
05:00	0.0	0.0	1.9	14.1	0	0



Continuous Gas Monitoring Record

Date	02/05/2024	Engineer	TP
Project No	LP3646	Temp °C	10
Site	New Place Farm	Ambient Pressure (mb)	1000

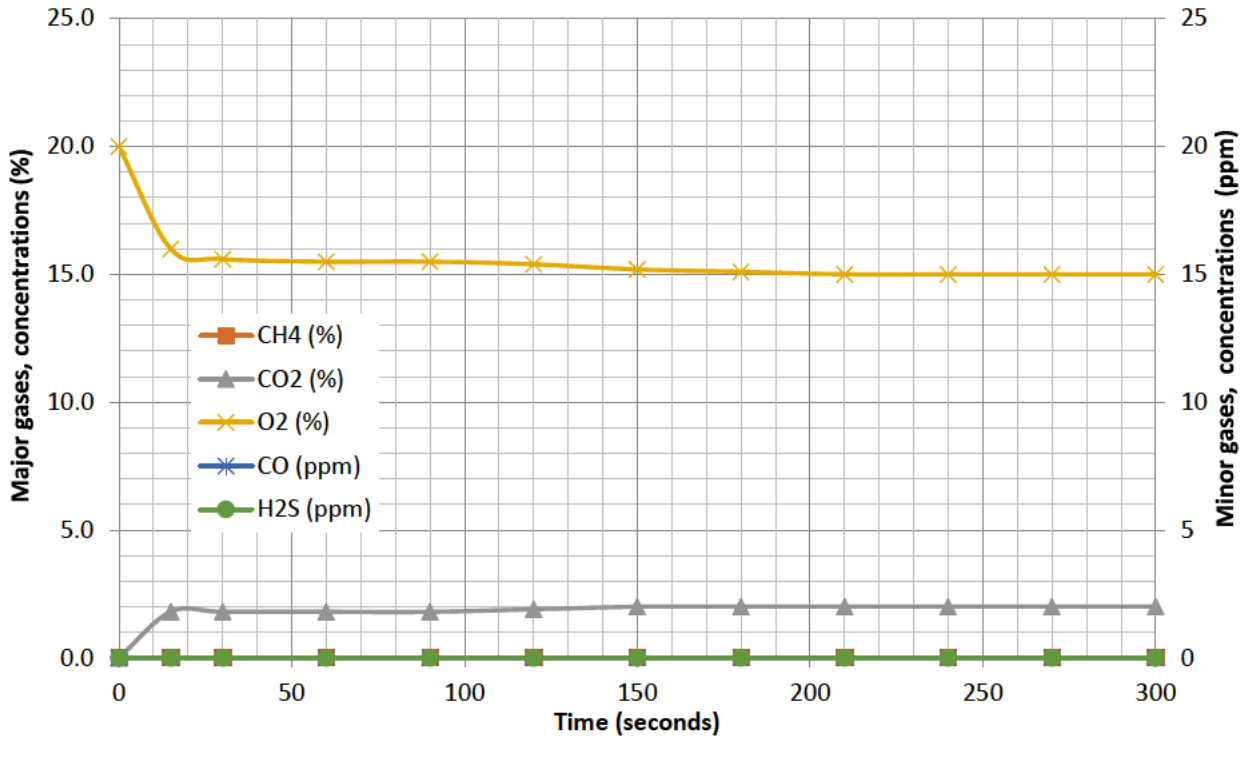
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS204		00:00	0.0	0.0	0.0	20.3	1	0
Hole ID		00:15	0.0	0.0	3.2	14.2	1	0
VOC peak (ppm)	0.0	00:30	0.0	0.0	4.5	13.3	1	0
		01:00	0.0	0.0	5.7	11.7	1	0
VOC steady (ppm)	0.0	01:30	0.0	0.0	6.2	10.9	1	0
		02:00	0.0	0.0	6.7	10.3	1	0
Borehole Depth (mbgl)	1.91	02:30	0.0	0.0	7.1	10.1	1	0
		03:00	0.0	0.0	7.1	10.1	1	0
Water level (mbgl)	Dry	03:30	0.0	0.0	7.1	10.1	1	0
		04:00	0.0	0.0	7.1	10.1	1	0
Borehole Pressure (mb)	1.14	04:30	0.0	0.0	7.1	10.1	1	0
		05:00	0.0	0.0	7.1	10.1	1	0



Continuous Gas Monitoring Record

Date	02/05/2024	Engineer	TP
Project No	LP3646	Temp °C	10
Site	New Place Farm	Ambient Pressure (mb)	1000

		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS207		00:00	-0.1	0.0	0.0	20.0	0	0
Hole ID		00:15	-0.1	0.0	1.8	16.0	0	0
VOC peak (ppm)	0.0	00:30	-0.1	0.0	1.8	15.6	0	0
		01:00	-0.1	0.0	1.8	15.5	0	0
VOC steady (ppm)	0.0	01:30	0.0	0.0	1.8	15.5	0	0
		02:00	0.0	0.0	1.9	15.4	0	0
Borehole Depth (mbgl)	1.59	02:30	0.0	0.0	2.0	15.2	0	0
		03:00	0.0	0.0	2.0	15.1	0	0
Water level (mbgl)	1.23	03:30	0.0	0.0	2.0	15.0	0	0
		04:00	0.0	0.0	2.0	15.0	0	0
Borehole Pressure (mb)	-3.4	04:30	0.0	0.0	2.0	15.0	0	0
		05:00	0.0	0.0	2.0	15.0	0	0



Continuous Gas Monitoring Record

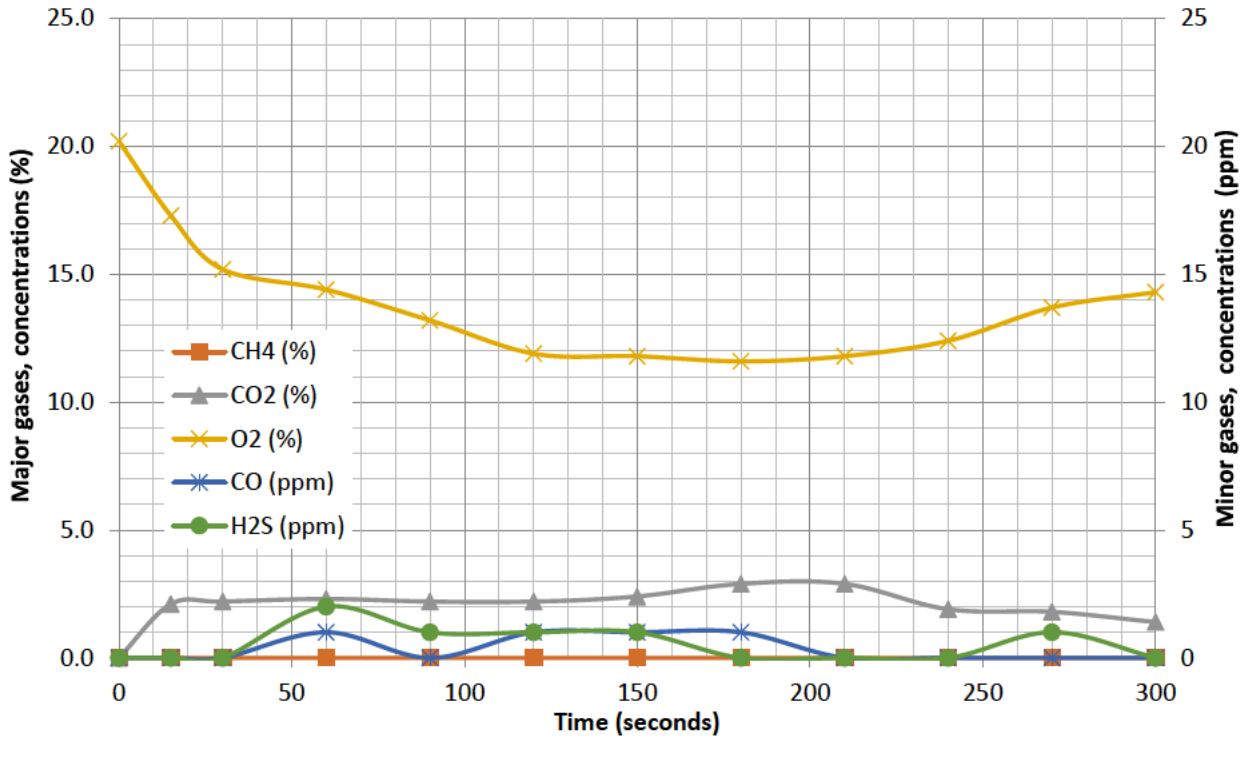
Date	02/05/2024	Engineer	TP
Project No	LP3646	Temp °C	10
Site	New Place Farm	Ambient Pressure (mb)	1000

WS301

Hole ID

VOC peak (ppm)	0.0
VOC steady (ppm)	0.0
Borehole Depth (mbgl)	0.78
Water level (mbgl)	0.61
Borehole Pressure (mb)	0.21

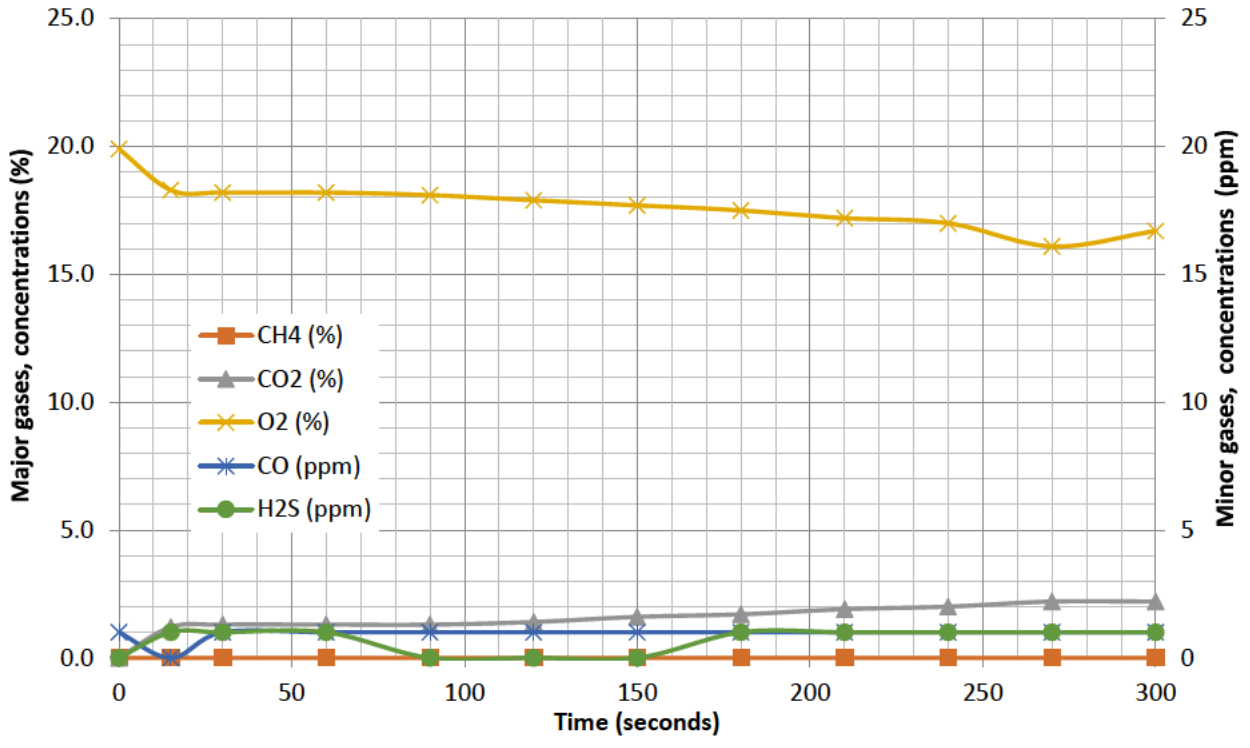
Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
00:00	0.0	0.0	0.0	20.2	0	0
00:15	0.0	0.0	2.1	17.3	0	0
00:30	0.0	0.0	2.2	15.2	0	0
01:00	0.0	0.0	2.3	14.4	1	2
01:30	0.1	0.0	2.2	13.2	0	1
02:00	0.1	0.0	2.2	11.9	1	1
02:30	0.1	0.0	2.4	11.8	1	1
03:00	0.1	0.0	2.9	11.6	1	0
03:30	0.1	0.0	2.9	11.8	0	0
04:00	0.1	0.0	1.9	12.4	0	0
04:30	0.0	0.0	1.8	13.7	0	1
05:00	0.0	0.0	1.4	14.3	0	0



Continuous Gas Monitoring Record

Date	02/05/2024	Engineer	TP
Project No	LP3646	Temp °C	10
Site	New Place Farm	Ambient Pressure (mb)	1000

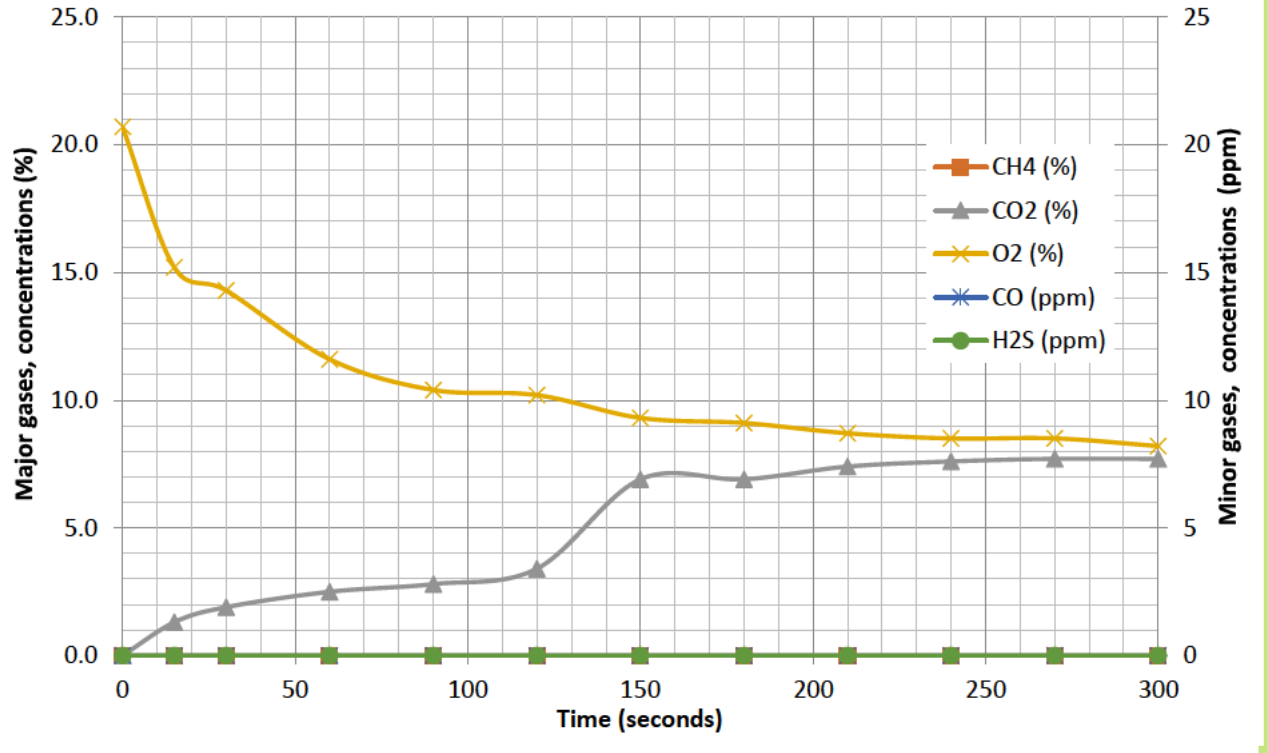
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS315		00:00	0.0	0.0	0.0	19.9	1	0
Hole ID		00:15	0.0	0.0	1.2	18.3	0	1
VOC peak (ppm)	0.0	00:30	0.0	0.0	1.3	18.2	1	1
		01:00	0.0	0.0	1.3	18.2	1	1
VOC steady (ppm)	0.0	01:30	0.0	0.0	1.3	18.1	1	0
		02:00	0.0	0.0	1.4	17.9	1	0
Borehole Depth (mbgl)	1.82	02:30	0.0	0.0	1.6	17.7	1	0
		03:00	0.0	0.0	1.7	17.5	1	1
Water level (mbgl)	Dry	03:30	0.0	0.0	1.9	17.2	1	1
		04:00	0.0	0.0	2.0	17.0	1	1
Borehole Pressure (mb)	0.07	04:30	0.0	0.0	2.2	16.1	1	1
		05:00	0.0	0.0	2.2	16.7	1	1



Continuous Gas Monitoring Record

Date	20/05/2024	Engineer	TP
Project No	LP3646	Temp °C	22
Site	New Place Farm	Ambient Pressure (mb)	1012

		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS7		00:00	0.1	0.0	0.0	20.7	0	0
Hole ID		00:15	0.1	0.0	1.3	15.2	0	0
VOC peak (ppm)	0.1	00:30	0.2	0.0	1.9	14.3	0	0
		01:00		0.0	2.5	11.6	0	0
VOC steady (ppm)	0.0	01:30	0.1	0.0	2.8	10.4	0	0
		02:00	0.0	0.0	3.4	10.2	0	0
Borehole Depth (mbgl)	2.56	02:30	0.0	0.0	6.9	9.3	0	0
		03:00	0.0	0.0	6.9	9.1	0	0
Water level (mbgl)	Dry	03:30	0.0	0.0	7.4	8.7	0	0
		04:00	0.0	0.0	7.6	8.5	0	0
Borehole Pressure (mb)	-0.01	04:30	0.0	0.0	7.7	8.5	0	0
		05:00	0.0	0.0	7.7	8.2	0	0



Continuous Gas Monitoring Record

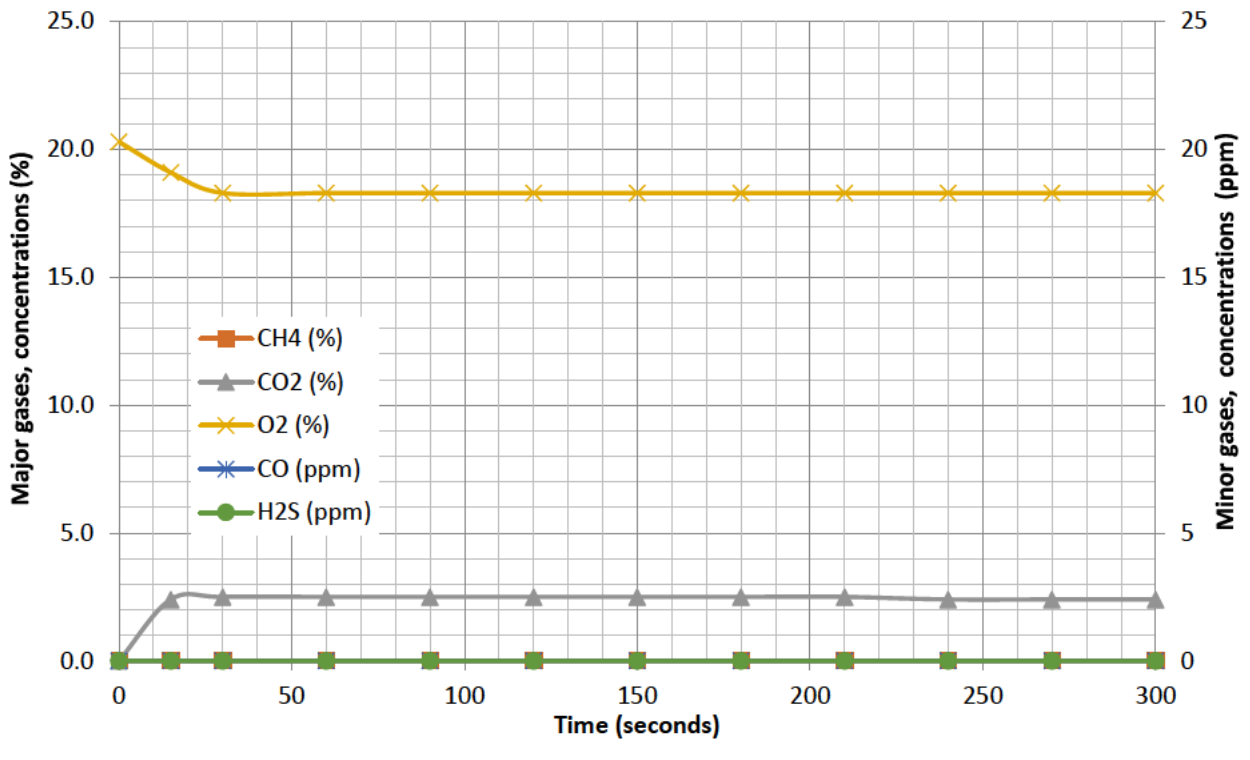
Date	20/05/2024	Engineer	TP
Project No	LP3646	Temp °C	22
Site	New Place Farm	Ambient Pressure (mb)	1012

WS201

Hole ID

VOC peak (ppm)	0.0
VOC steady (ppm)	0.0
Borehole Depth (mbgl)	2.05
Water level (mbgl)	Dry
Borehole Pressure (mb)	0.02

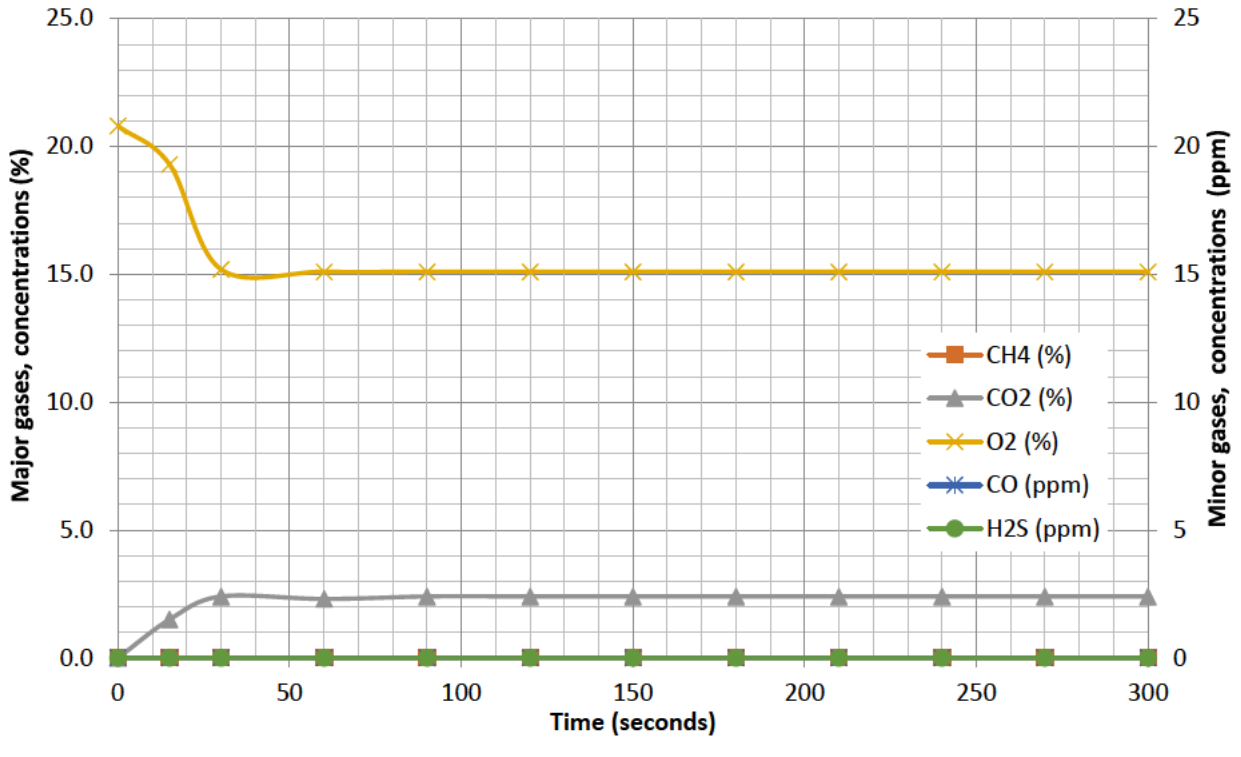
Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
00:00	0.0	0.0	0.0	20.3	0	0
00:15	0.0	0.0	2.4	19.1	0	0
00:30	0.0	0.0	2.5	18.3	0	0
01:00	0.0	0.0	2.5	18.3	0	0
01:30	0.0	0.0	2.5	18.3	0	0
02:00	0.0	0.0	2.5	18.3	0	0
02:30	0.0	0.0	2.5	18.3	0	0
03:00	0.0	0.0	2.5	18.3	0	0
03:30	0.0	0.0	2.5	18.3	0	0
04:00	0.0	0.0	2.4	18.3	0	0
04:30	0.0	0.0	2.4	18.3	0	0
05:00	0.0	0.0	2.4	18.3	0	0



Continuous Gas Monitoring Record

Date	20/05/2024	Engineer	TP
Project No	LP3646	Temp °C	22
Site	New Place Farm	Ambient Pressure (mb)	1012

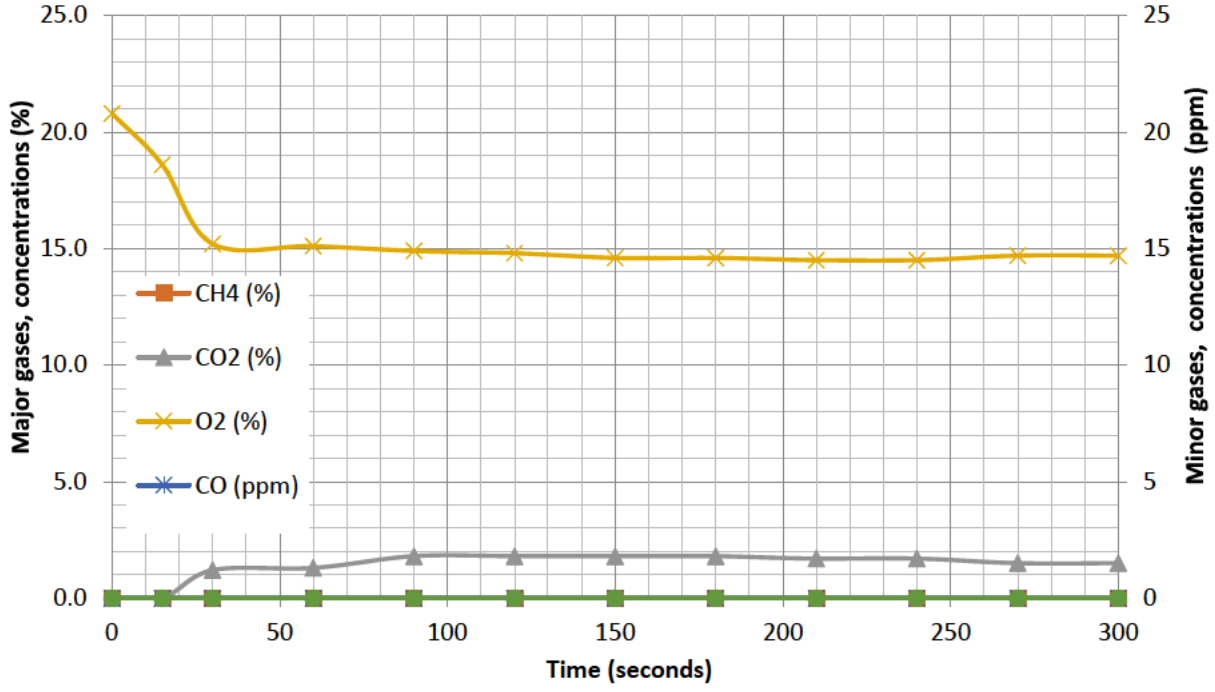
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS202		00:00	0.0	0.0	0.0	20.8	0	0
Hole ID		00:15	0.0	0.0	1.5	19.3	0	0
VOC peak (ppm)	0.1	00:30	0.1	0.0	2.4	15.2	0	0
		01:00	0.0	0.0	2.3	15.1	0	0
VOC steady (ppm)	0.0	01:30	0.0	0.0	2.4	15.1	0	0
		02:00	0.0	0.0	2.4	15.1	0	0
Borehole Depth (mbgl)	1.47	02:30	0.0	0.0	2.4	15.1	0	0
		03:00	0.0	0.0	2.4	15.1	0	0
Water level (mbgl)	Dry	03:30	0.0	0.0	2.4	15.1	0	0
		04:00	0.0	0.0	2.4	15.1	0	0
Borehole Pressure (mb)	4	04:30	0.0	0.0	2.4	15.1	0	0
		05:00	0.0	0.0	2.4	15.1	0	0



Continuous Gas Monitoring Record

Date	20/05/2024	Engineer	TP
Project No	LP3646	Temp °C	22
Site	New Place Farm	Ambient Pressure (mb)	1012

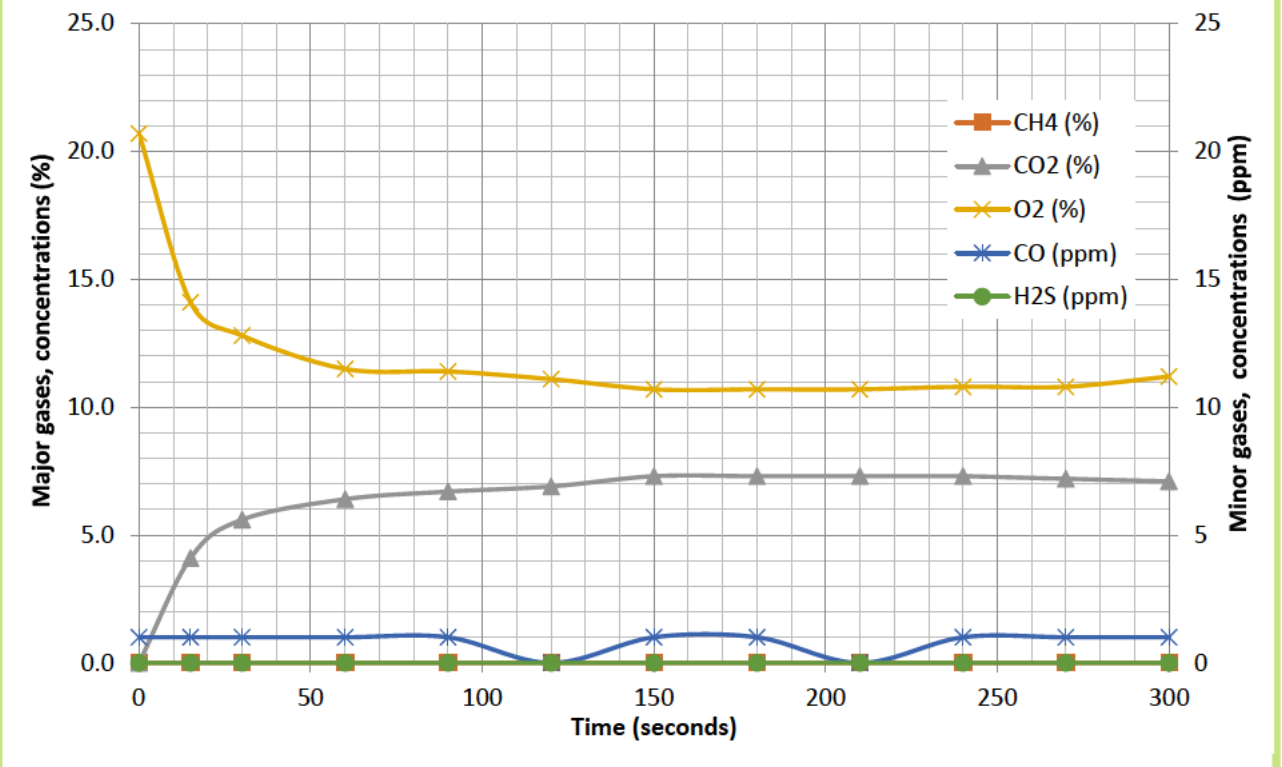
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS203		00:00	0.0	0.0	0.0	20.8	0	0
Hole ID		00:15	0.0	0.0	0.0	18.6	0	0
VOC peak (ppm)	0.1	00:30	0.0	0.0	1.2	15.2	0	0
		01:00	0.0	0.0	1.3	15.1	0	0
VOC steady (ppm)	0.0	01:30	0.0	0.0	1.8	14.9	0	0
		02:00	0.0	0.0	1.8	14.8	0	0
Borehole Depth (mbgl)	1.57	02:30	0.0	0.0	1.8	14.6	0	0
		03:00	0.0	0.0	1.8	14.6	0	0
Water level (mbgl)	Dry	03:30	0.0	0.0	1.7	14.5	0	0
		04:00	0.0	0.0	1.7	14.5	0	0
Borehole Pressure (mb)	-7.2	04:30	0.0	0.0	1.5	14.7	0	0
		05:00	0.0	0.0	1.5	14.7	0	0



Continuous Gas Monitoring Record

Date	20/05/2024	Engineer	TP
Project No	LP3646	Temp °C	22
Site	New Place Farm	Ambient Pressure (mb)	1012

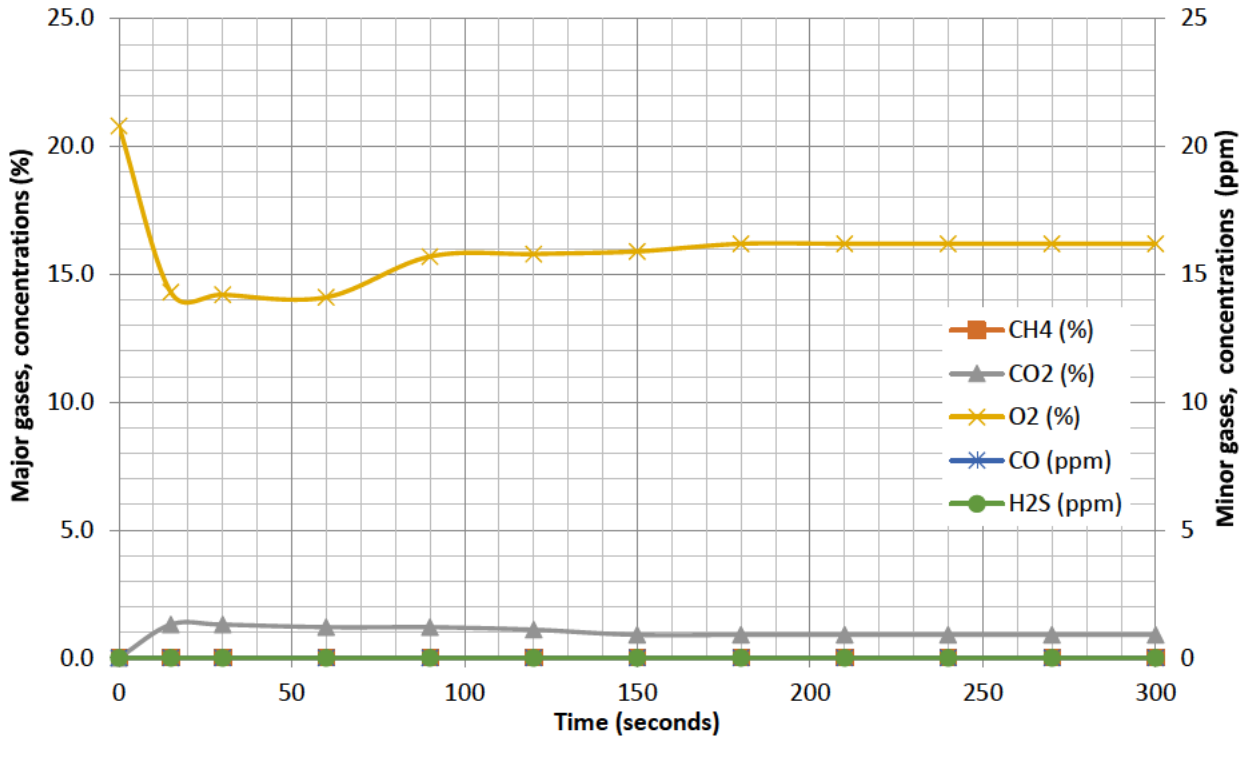
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS204		00:00	0.0	0.0	0.0	20.7	1	0
Hole ID		00:15	0.0	0.0	4.1	14.1	1	0
VOC peak (ppm)	0.1	00:30	0.0	0.0	5.6	12.8	1	0
		01:00	0.0	0.0	6.4	11.5	1	0
VOC steady (ppm)	0.0	01:30	0.0	0.0	6.7	11.4	1	0
		02:00	0.0	0.0	6.9	11.1	0	0
Borehole Depth (mbgl)	1.89	02:30	0.0	0.0	7.3	10.7	1	0
		03:00	0.0	0.0	7.3	10.7	1	0
Water level (mbgl)	Dry	03:30	0.0	0.0	7.3	10.7	0	0
		04:00	0.0	0.0	7.3	10.8	1	0
Borehole Pressure (mb)	1.2	04:30	0.0	0.0	7.2	10.8	1	0
		05:00	0.0	0.0	7.1	11.2	1	0



Continuous Gas Monitoring Record

Date	20/05/2024	Engineer	TP
Project No	LP3646	Temp °C	22
Site	New Place Farm	Ambient Pressure (mb)	1012

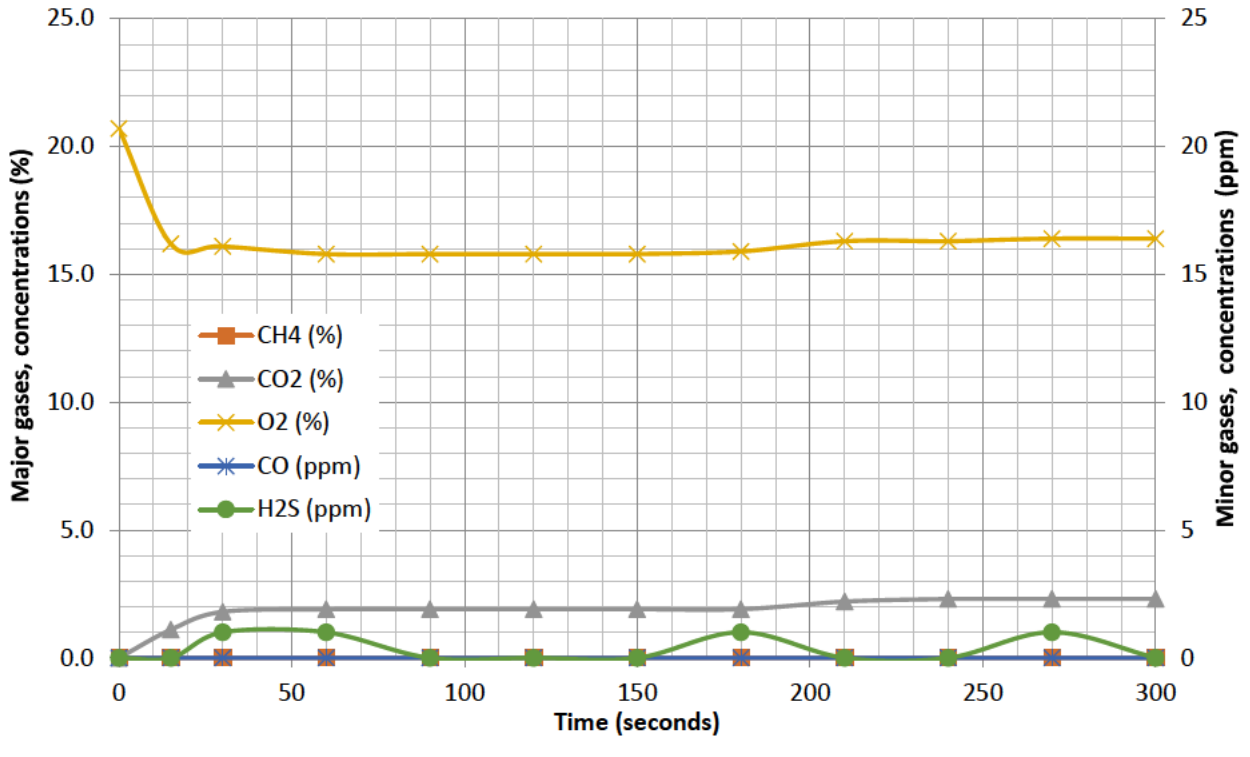
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS207		00:00	0.0	0.0	0.0	20.8	0	0
Hole ID		00:15	0.0	0.0	1.3	14.3	0	0
VOC peak (ppm)	0.0	00:30	-0.1	0.0	1.3	14.2	0	0
		01:00	-0.1	0.0	1.2	14.1	0	0
VOC steady (ppm)	0.0	01:30	-0.1	0.0	1.2	15.7	0	0
		02:00	-0.1	0.0	1.1	15.8	0	0
Borehole Depth (mbgl)	1.56	02:30	0.0	0.0	0.9	15.9	0	0
		03:00	0.0	0.0	0.9	16.2	0	0
Water level (mbgl)	1.3	03:30	0.0	0.0	0.9	16.2	0	0
		04:00	0.0	0.0	0.9	16.2	0	0
Borehole Pressure (mb)	-2.3	04:30	0.0	0.0	0.9	16.2	0	0
		05:00	0.0	0.0	0.9	16.2	0	0



Continuous Gas Monitoring Record

Date	20/05/2024	Engineer	TP
Project No	LP3646	Temp °C	22
Site	New Place Farm	Ambient Pressure (mb)	1012

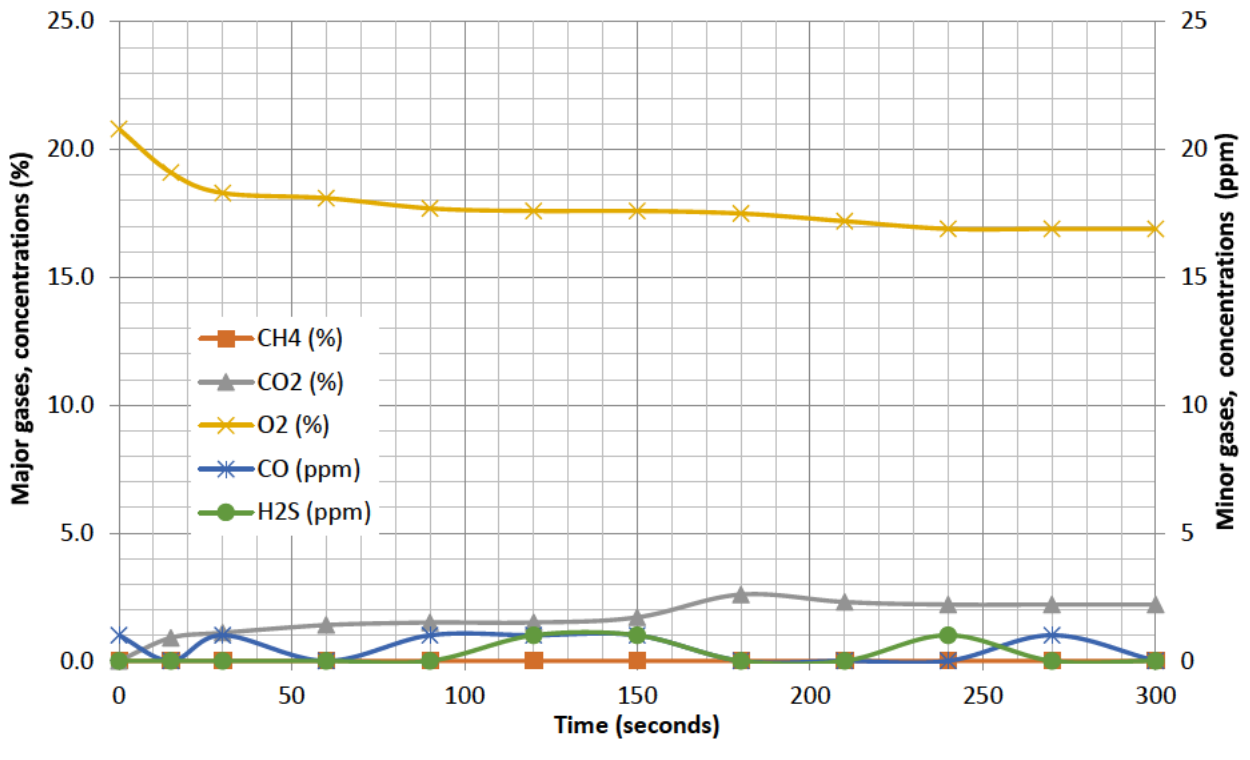
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS301		00:00	0.0	0.0	0.0	20.7	0	0
Hole ID		00:15	0.0	0.0	1.1	16.2	0	0
VOC peak (ppm)	0.1	00:30	0.0	0.0	1.8	16.1	0	1
		01:00	0.0	0.0	1.9	15.8	0	1
VOC steady (ppm)	0.0	01:30	0.0	0.0	1.9	15.8	0	0
		02:00	0.0	0.0	1.9	15.8	0	0
Borehole Depth (mbgl)	0.78	02:30	0.0	0.0	1.9	15.8	0	0
		03:00	0.0	0.0	1.9	15.9	0	1
Water level (mbgl)	0.52	03:30	0.0	0.0	2.2	16.3	0	0
		04:00	0.0	0.0	2.3	16.3	0	0
Borehole Pressure (mb)	0.02	04:30	0.0	0.0	2.3	16.4	0	1
		05:00	0.0	0.0	2.3	16.4	0	0



Continuous Gas Monitoring Record

Date	20/05/2024	Engineer	TP
Project No	LP3646	Temp °C	22
Site	New Place Farm	Ambient Pressure (mb)	1012

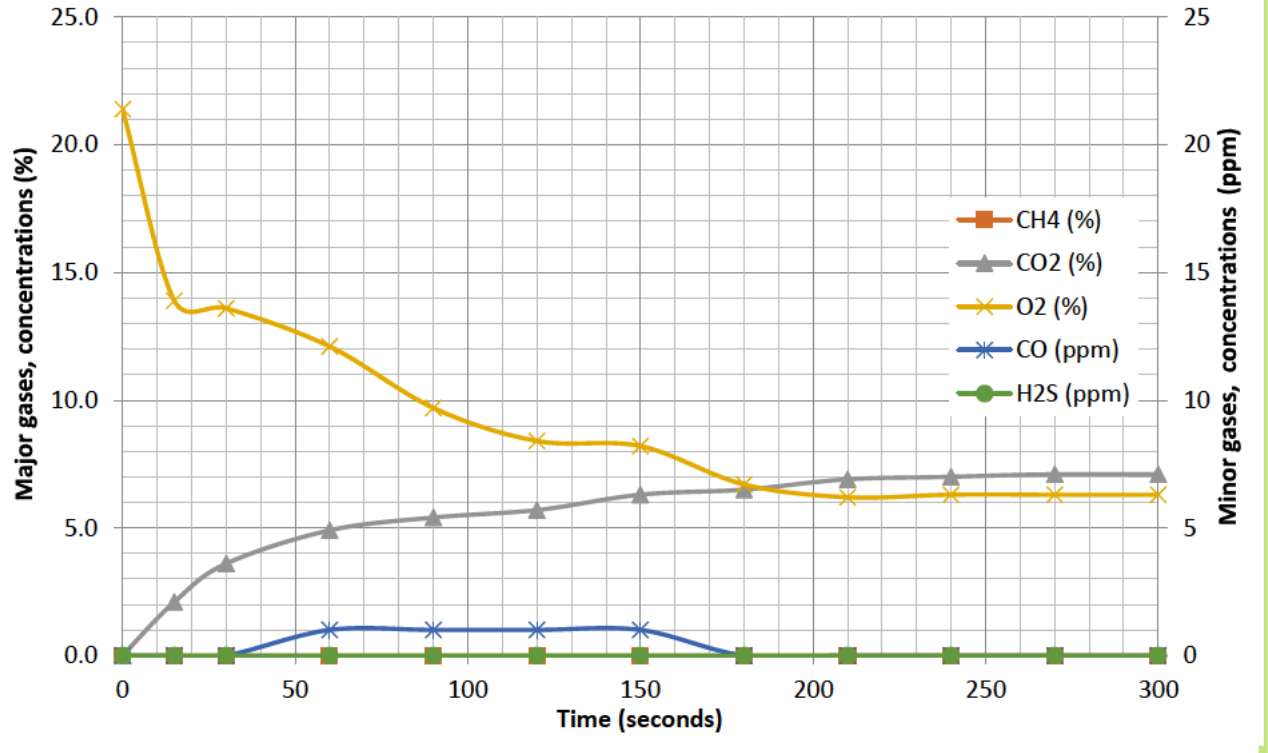
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS315		00:00	0.0	0.0	0.0	20.8	1	0
Hole ID		00:15	0.0	0.0	0.9	19.1	0	0
VOC peak (ppm)	0.1	00:30	0.0	0.0	1.1	18.3	1	0
		01:00	0.0	0.0	1.4	18.1	0	0
VOC steady (ppm)	0.0	01:30	0.0	0.0	1.5	17.7	1	0
		02:00	0.0	0.0	1.5	17.6	1	1
Borehole Depth (mbgl)	1.81	02:30	0.0	0.0	1.7	17.6	1	1
		03:00	0.0	0.0	2.6	17.5	0	0
Water level (mbgl)	Dry	03:30	0.0	0.0	2.3	17.2	0	0
		04:00	0.0	0.0	2.2	16.9	0	1
Borehole Pressure (mb)	0.06	04:30	0.0	0.0	2.2	16.9	1	0
		05:00	0.0	0.0	2.2	16.9	0	0



Continuous Gas Monitoring Record

Date	03/06/2024	Engineer	TP
Project No	LP3646	Temp °C	19
Site	New Place Farm	Ambient Pressure (mb)	1014

		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS7		00:00	0.0	0.0	0.0	21.4	0	0
Hole ID		00:15	0.0	0.0	2.1	13.9	0	0
VOC peak (ppm)	0.1	00:30	0.0	0.0	3.6	13.6	0	0
		01:00	0.0	0.0	4.9	12.1	1	0
VOC steady (ppm)	0.1	01:30	0.0	0.0	5.4	9.7	1	0
		02:00	0.0	0.0	5.7	8.4	1	0
Borehole Depth (mbgl)	2.56	02:30	0.0	0.0	6.3	8.2	1	0
		03:00	0.0	0.0	6.5	6.7	0	0
Water level (mbgl)	Dry	03:30	0.0	0.0	6.9	6.2	0	0
		04:00	0.0	0.0	7.0	6.3	0	0
Borehole Pressure (mb)	-0.01	04:30	0.0	0.0	7.1	6.3	0	0
		05:00	0.0	0.0	7.1	6.3	0	0



Continuous Gas Monitoring Record

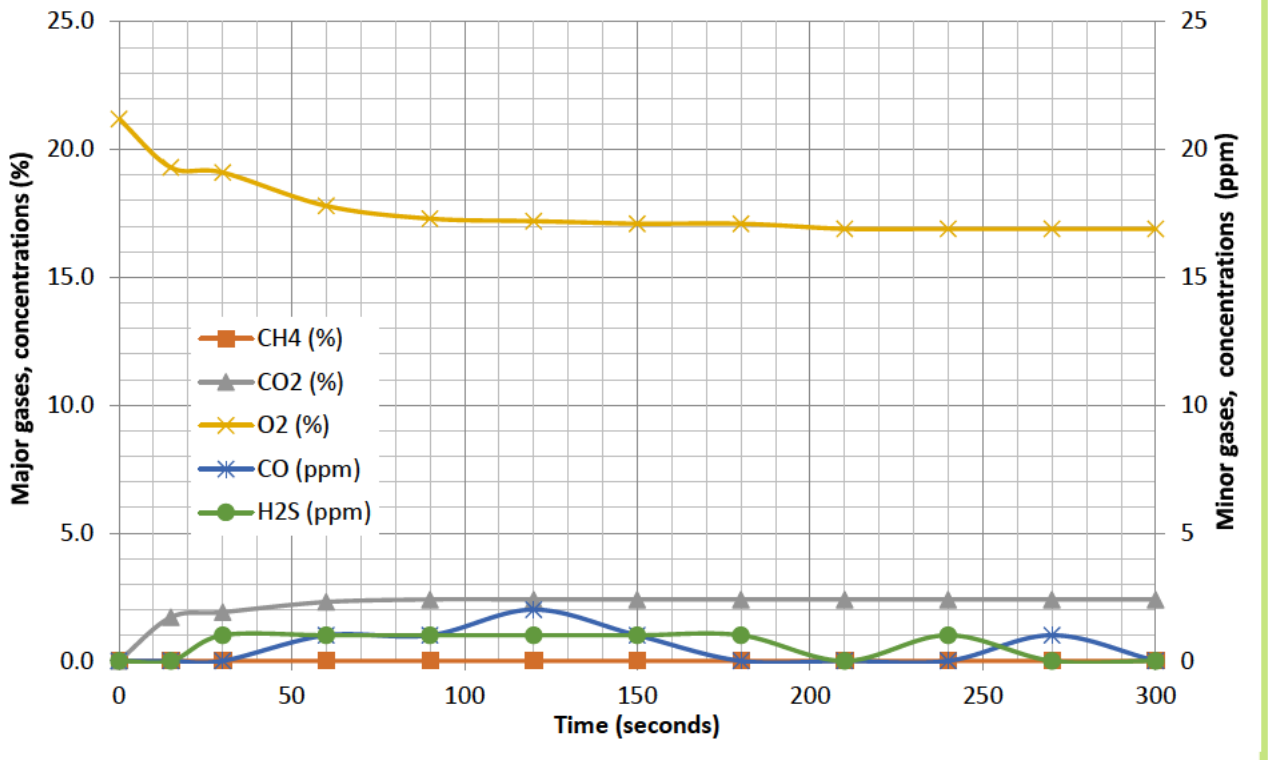
Date	03/06/2024	Engineer	TP
Project No	LP3646	Temp °C	19
Site	New Place Farm	Ambient Pressure (mb)	1014

WS201

Hole ID

VOC peak (ppm)	0.0
VOC steady (ppm)	0.0
Borehole Depth (mbgl)	2.01
Water level (mbgl)	Dry
Borehole Pressure (mb)	0.55

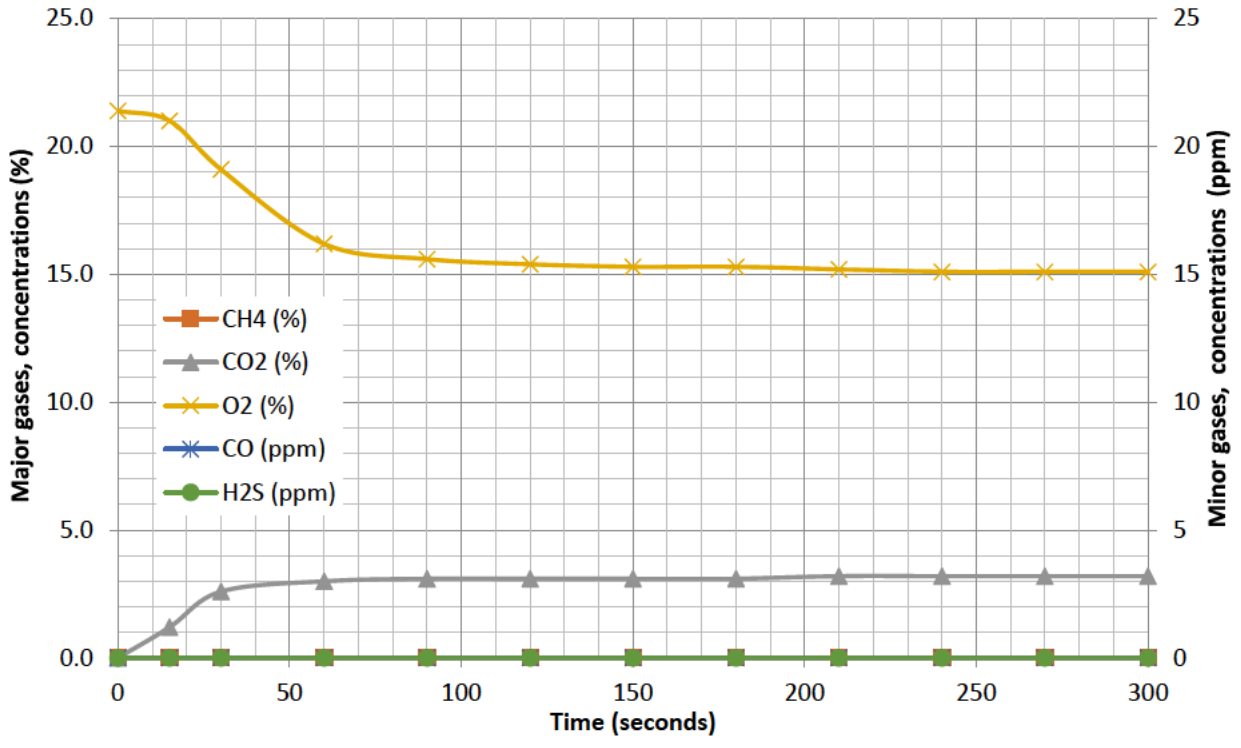
Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
00:00	0.0	0.0	0.0	21.2	0	0
00:15	0.0	0.0	1.7	19.3	0	0
00:30	0.0	0.0	1.9	19.1	0	1
01:00	0.1	0.0	2.3	17.8	1	1
01:30	0.1	0.0	2.4	17.3	1	1
02:00	0.0	0.0	2.4	17.2	2	1
02:30	0.0	0.0	2.4	17.1	1	1
03:00	0.0	0.0	2.4	17.1	0	1
03:30	0.0	0.0	2.4	16.9	0	0
04:00	0.0	0.0	2.4	16.9	0	1
04:30	0.0	0.0	2.4	16.9	1	0
05:00	0.0	0.0	2.4	16.9	0	0



Continuous Gas Monitoring Record

Date	03/06/2024	Engineer	TP
Project No	LP3646	Temp °C	19
Site	New Place Farm	Ambient Pressure (mb)	1014

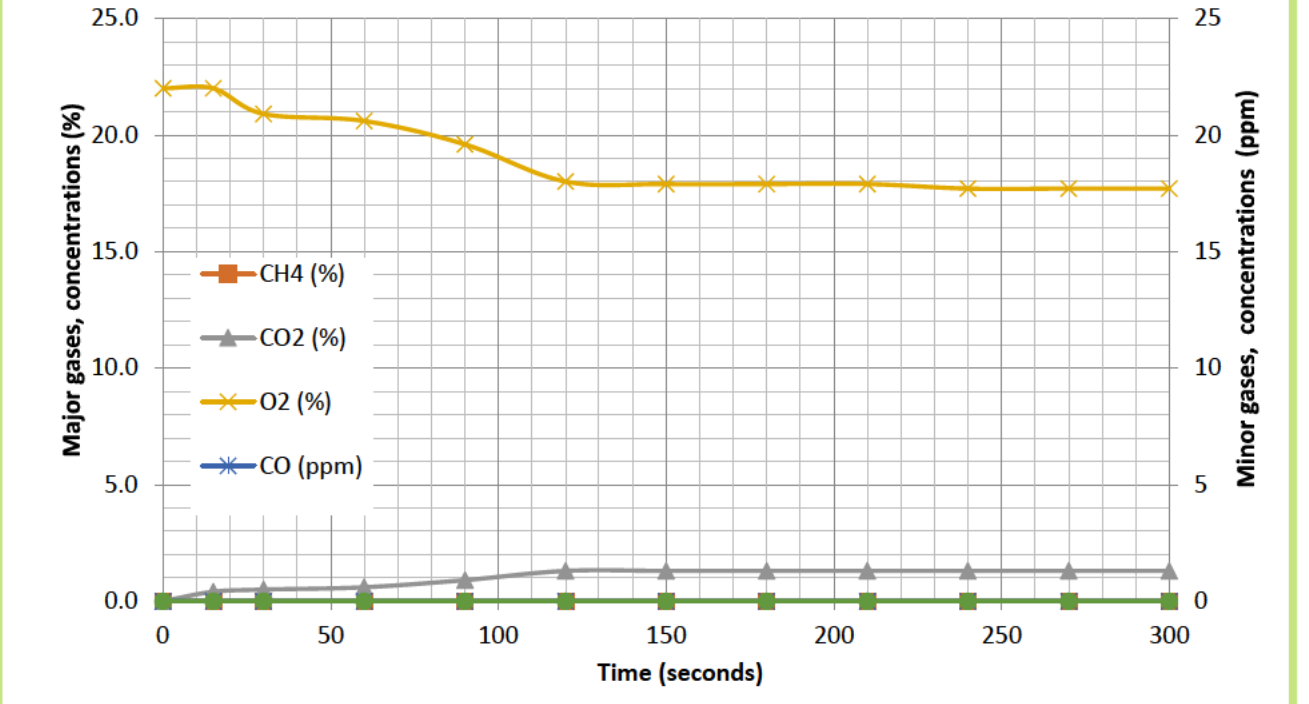
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS202		00:00	0.0	0.0	0.0	21.4	0	0
Hole ID		00:15	0.0	0.0	1.2	21.0	0	0
VOC peak (ppm)	0.1	00:30	0.1	0.0	2.6	19.1	0	0
		01:00	0.1	0.0	3.0	16.2	0	0
VOC steady (ppm)	0.0	01:30	0.0	0.0	3.1	15.6	0	0
		02:00	0.0	0.0	3.1	15.4	0	0
Borehole Depth (mbgl)	1.46	02:30	0.0	0.0	3.1	15.3	0	0
		03:00	0.0	0.0	3.1	15.3	0	0
Water level (mbgl)	Dry	03:30	-0.1	0.0	3.2	15.2	0	0
		04:00	0.0	0.0	3.2	15.1	0	0
Borehole Pressure (mb)	0.3	04:30	0.0	0.0	3.2	15.1	0	0
		05:00	0.0	0.0	3.2	15.1	0	0



Continuous Gas Monitoring Record

Date	03/06/2024	Engineer	TP
Project No	LP3646	Temp °C	19
Site	New Place Farm	Ambient Pressure (mb)	1014

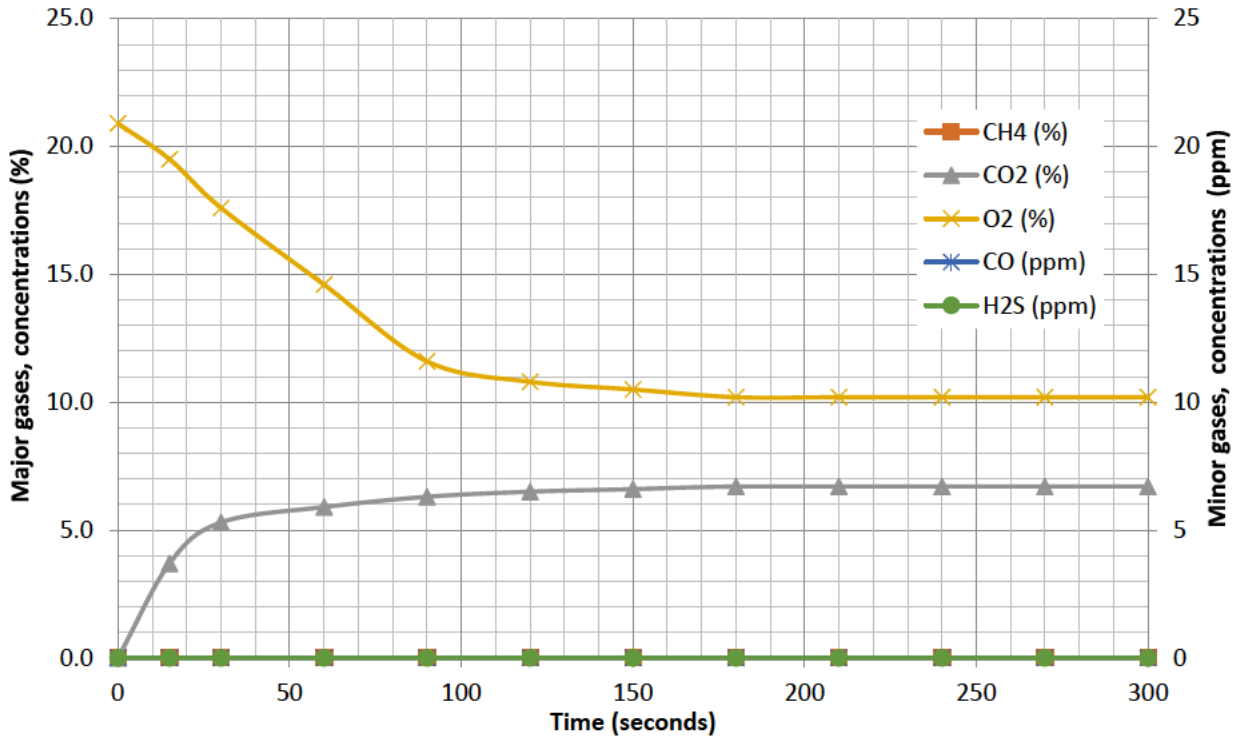
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS203		00:00	0.0	0.0	0.0	22.0	0	0
Hole ID		00:15	0.0	0.0	0.4	22.0	0	0
VOC peak (ppm)	0.0	00:30	0.0	0.0	0.5	20.9	0	0
		01:00	0.0	0.0	0.6	20.6	0	0
VOC steady (ppm)	0.0	01:30	0.0	0.0	0.9	19.6	0	0
		02:00	0.0	0.0	1.3	18.0	0	0
Borehole Depth (mbgl)	1.58	02:30	0.0	0.0	1.3	17.9	0	0
		03:00	0.0	0.0	1.3	17.9	0	0
Water level (mbgl)	Dry	03:30	0.0	0.0	1.3	17.9	0	0
		04:00	0.0	0.0	1.3	17.7	0	0
Borehole Pressure (mb)	0.02	04:30	0.0	0.0	1.3	17.7	0	0
		05:00	0.0	0.0	1.3	17.7	0	0



Continuous Gas Monitoring Record

Date	03/06/2024	Engineer	TP
Project No	LP3646	Temp °C	19
Site	New Place Farm	Ambient Pressure (mb)	1014

		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS204		00:00	0.0	0.0	0.0	20.9	0	0
Hole ID		00:15	0.0	0.0	3.7	19.5	0	0
VOC peak (ppm)	0.0	00:30	0.0	0.0	5.3	17.6	0	0
		01:00	0.1	0.0	5.9	14.6	0	0
VOC steady (ppm)	0.0	01:30	0.1	0.0	6.3	11.6	0	0
		02:00	0.1	0.0	6.5	10.8	0	0
Borehole Depth (mbgl)	1.92	02:30	0.1	0.0	6.6	10.5	0	0
		03:00	0.0	0.0	6.7	10.2	0	0
Water level (mbgl)	Dry	03:30	0.0	0.0	6.7	10.2	0	0
		04:00	0.0	0.0	6.7	10.2	0	0
Borehole Pressure (mb)	0.1	04:30	0.0	0.0	6.7	10.2	0	0
		05:00	0.0	0.0	6.7	10.2	0	0

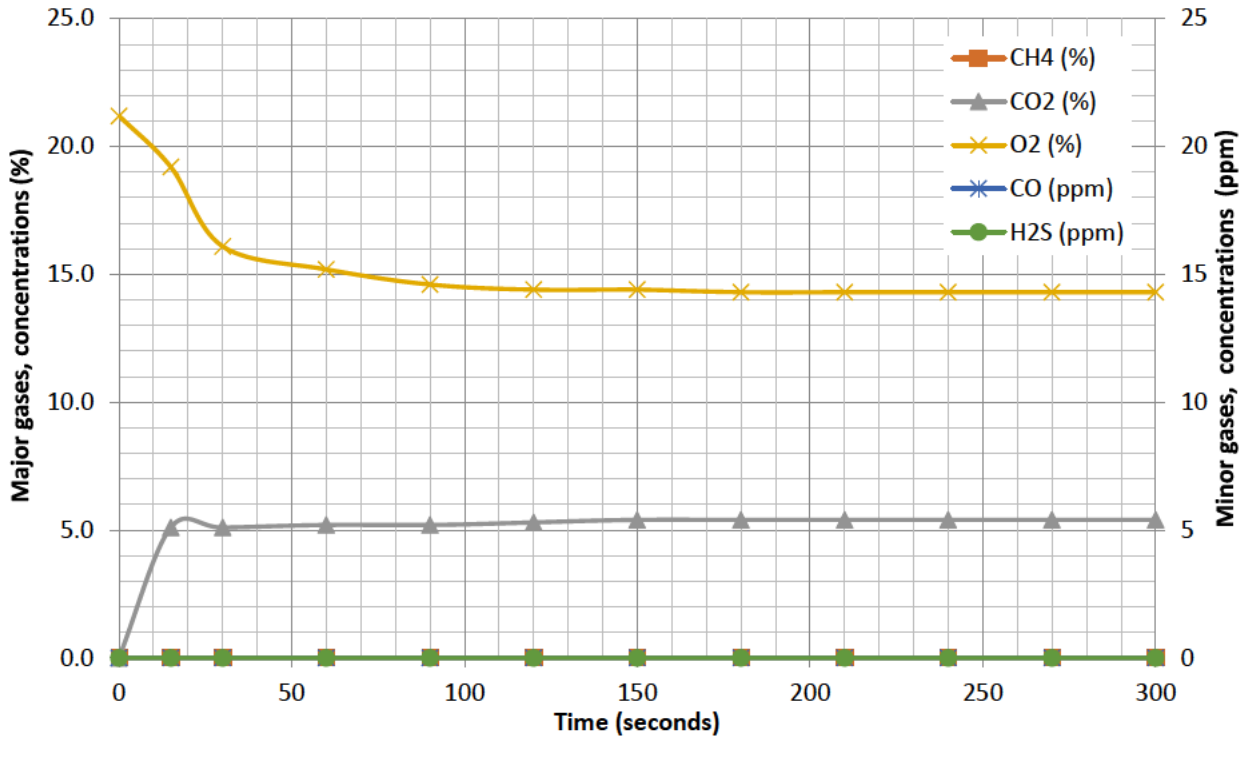


Continuous Gas Monitoring Record

Date	03/06/2024	Engineer	TP
Project No	LP3646	Temp °C	19
Site	New Place Farm	Ambient Pressure (mb)	1014

WS207	Hole ID
VOC peak (ppm)	0.0
VOC steady (ppm)	0.0
Borehole Depth (mbgl)	1.56
Water level (mbgl)	Dry
Borehole Pressure (mb)	0.02

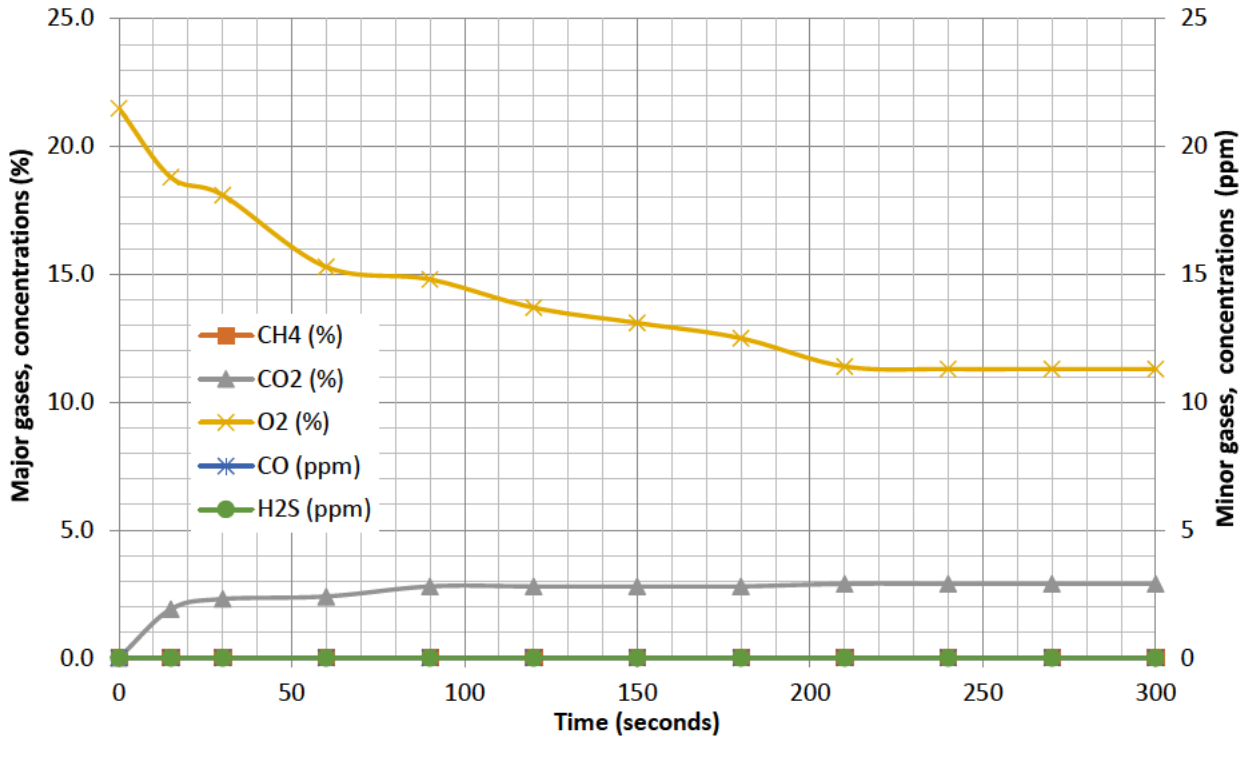
Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
00:00	0.0	0.0	0.0	21.2	0	0
00:15	0.0	0.0	5.1	19.2	0	0
00:30	0.0	0.0	5.1	16.1	0	0
01:00	0.0	0.0	5.2	15.2	0	0
01:30	0.0	0.0	5.2	14.6	0	0
02:00	0.0	0.0	5.3	14.4	0	0
02:30	0.0	0.0	5.4	14.4	0	0
03:00	0.0	0.0	5.4	14.3	0	0
03:30	0.0	0.0	5.4	14.3	0	0
04:00	0.0	0.0	5.4	14.3	0	0
04:30	0.0	0.0	5.4	14.3	0	0
05:00	0.0	0.0	5.4	14.3	0	0



Continuous Gas Monitoring Record

Date	03/06/2024	Engineer	TP
Project No	LP3646	Temp °C	19
Site	New Place Farm	Ambient Pressure (mb)	1014

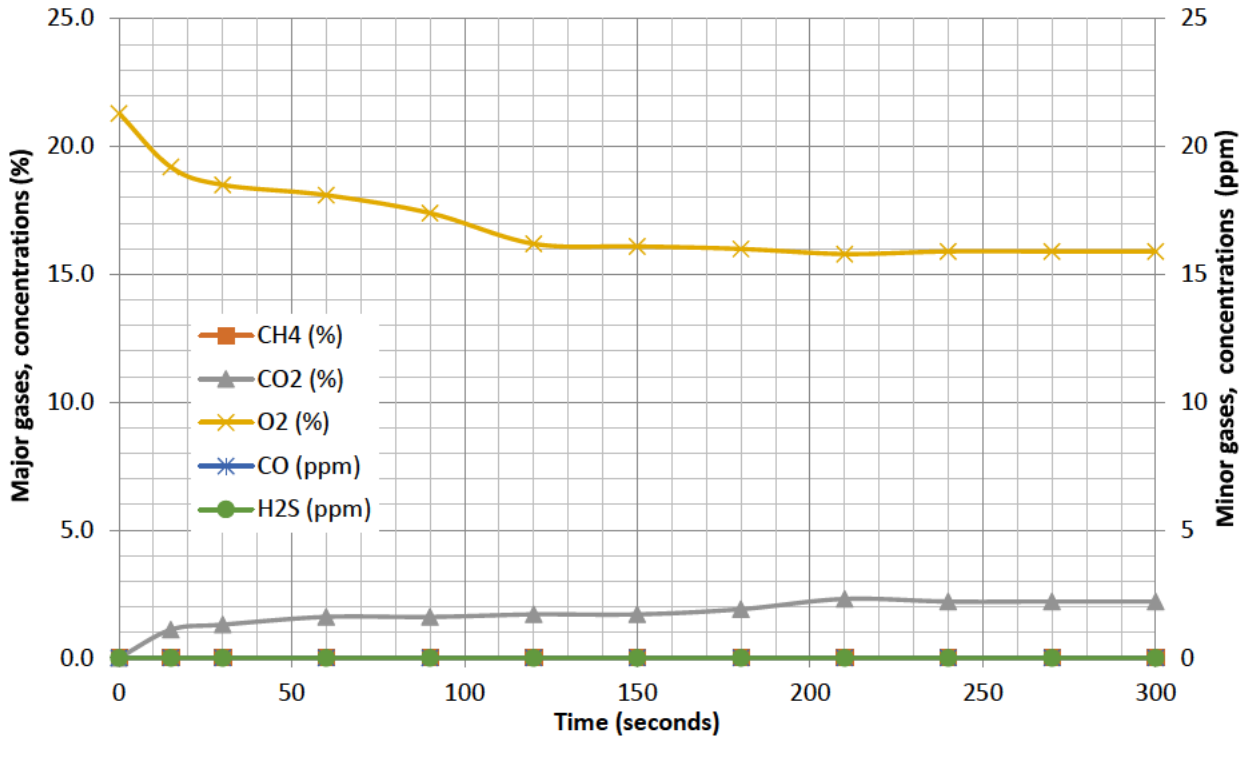
		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
WS301		00:00	0.0	0.0	0.0	21.5	0	0
Hole ID		00:15	0.0	0.0	1.9	18.8	0	0
VOC peak (ppm)	0.0	00:30	0.0	0.0	2.3	18.1	0	0
		01:00	0.0	0.0	2.4	15.3	0	0
VOC steady (ppm)	0.0	01:30	0.0	0.0	2.8	14.8	0	0
		02:00	0.0	0.0	2.8	13.7	0	0
Borehole Depth (mbgl)	0.75	02:30	0.0	0.0	2.8	13.1	0	0
		03:00	0.0	0.0	2.8	12.5	0	0
Water level (mbgl)	0.32	03:30	0.0	0.0	2.9	11.4	0	0
		04:00	0.0	0.0	2.9	11.3	0	0
Borehole Pressure (mb)	0.14	04:30	0.0	0.0	2.9	11.3	0	0
		05:00	0.0	0.0	2.9	11.3	0	0



Continuous Gas Monitoring Record

Date	03/06/2024	Engineer	TP
Project No	LP3646	Temp °C	19
Site	New Place Farm	Ambient Pressure (mb)	1014

WS315 Hole ID		Time	Flow (ʃ/h)	CH^4 (%)	CO^2 (%)	O^2 (%)	CO (ppm)	H^2S (ppm)
		00:00	0.0	0.0	0.0	21.3	0	0
		00:15	0.1	0.0	1.1	19.2	0	0
VOC peak (ppm)	0.0	00:30	0.1	0.0	1.3	18.5	0	0
		01:00	0.1	0.0	1.6	18.1	0	0
VOC steady (ppm)	0.0	01:30	0.1	0.0	1.6	17.4	0	0
		02:00	0.1	0.0	1.7	16.2	0	0
Borehole Depth (mbgl)	1.81	02:30	0.0	0.0	1.7	16.1	0	0
		03:00	0.0	0.0	1.9	16.0	0	0
Water level (mbgl)	Dry	03:30	0.0	0.0	2.3	15.8	0	0
		04:00	0.0	0.0	2.2	15.9	0	0
Borehole Pressure (mb)	0.03	04:30	0.0	0.0	2.2	15.9	0	0
		05:00	0.0	0.0	2.2	15.9	0	0



APPENDIX G – GEOTECHNICAL LABORATORY TEST RESULTS

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web: www.geolabs.co.uk

Leap Environmental
Southern Coast Regional Office
Victoria Road
Burgess Hill
West Sussex
RH15 9LR

04 June 2024
Report No : GEO/40474/01

For the attention of Mr I Betts

Date samples received	08/05/2024
Date written instructions received	15/05/2024
Date testing commenced	16/05/2024
Date of sample disposal	**02/07/2024**

Our ref **GEO / 40474**
Your Ref **LP3646**

Project **NEW PLACE FARM, PULBOROUGH**

Further to your instructions we have pleasure in enclosing the results of the tests you requested in the attached figures.

LABORATORY TEST REPORT

Item No	Test Quantity	Description
1	~	Liquid & Plastic Limits Summary
~	10	Water Content
~	10	Liquid & Plastic Limits
2	~	Geochemical Test Summary
~	7	BRE SD1 Suite B - Natural ground + pyrite
3	9	Particle Size Distribution

Any opinions or interpretations expressed herein are outside the scope of UKAS accreditation. All results contained in this report are provisional unless signed by an approved signatory. The results contained in this report relate only to samples received in the laboratory and are tested 'as received' unless otherwise stated. This report should not be reproduced, except in full, without the written approval of the laboratory. The results reported are applicable only to the test items received by the laboratory.

All the necessary data required by the documented test procedures has been recorded and will be stored for a period of not less than 6 years. This data will be issued to yourselves at your request. All samples will be disposed of after the date shown above. Written confirmation will be required to retain the samples beyond this period and a storage charge may be applied.

We trust that the above meets your requirements and should you require any further information or assistance, please do not hesitate to contact us.

Yours faithfully

[redacted]

Senior Technician

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Registered Office: Bucknalls Lane Garston Watford Hertfordshire WD25 9XX Registered in England and Wales No: 3177641

BS EN ISO 17892-12 : 2018+A2:2022

SUMMARY OF LIQUID AND PLASTIC LIMIT TESTS

Location	Depth m	Sample Ref	Sample Type	Description	Water Content BS EN ISO 17892-1 : 2014 +A1:2022 %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Percentage Passing 425µm %	Atterberg Classification	Test Type	Sample Condition
WS304	0.60	D1	D	Orangish brown sandy gravelly silty CLAY.	19.3	26	18	8	86	CL	2	3
WS305	0.60	D1	D	Orangish brown slightly gravelly sandy silty CLAY.	22.4	34	20	14	98	CL	2	1
WS309	0.60	D1	D	Brown slightly sandy slightly gravelly clayey SILT with rare roots.	15.0	~	NP	~	97	~	3	1
WS310	1.50	D2	D	Orangish brown gravelly sandy silty CLAY.	23.2	30	20	10	98	CL	2	1
WS314	1.40	D2	D	Orangish brown and brown slightly gravelly slightly sandy silty CLAY.	20.2	28	18	10	99	CL	2	1
WS316	1.60	D2	D	Orangish brown slightly gravelly sandy silty CLAY.	16.8	27	16	11	99	CL	2	1
WS317	0.60	D1	D	Brown slightly gravelly sandy clayey SILT.	21.3	~	NP	~	99	~	3	1
WS318	0.60	D1	D	Orangish brown and brown slightly gravelly sandy silty CLAY.	19.4	25	18	7	98	CL	2	1
WS318	1.50	D2	D	Orangish brown slightly gravelly sandy silty CLAY.	23.0	31	19	12	98	CL	2	1
WS321	0.80	D1	D	Orangish brown slightly gravelly sandy silty CLAY.	23.6	27	19	8	97	CL	2	1

Test Type: 2 - 4 point 80g / 30° fall cone method.
3 - Non plastic determination.

Sample condition: 1 - As Received
2 - Air Dried
3 - Washed & Air Dried

[redacted]
S Burke - Senior Technician
04/06/2024

Project Number:
GEO / 40474

ect Name:
NEW PLACE FARM, PULBOROUGH
LP3646

GEOLABS
UKAS TESTING 1982

SUMMARY OF CHEMICAL TESTS ON SOIL

Location	Depth m	Sample Ref	Sample Type	pH Value	Total Acid Soluble Sulphate as SO4 %	Water Soluble Sulphate as SO4 2:1 Water:Soil Extract g/l	Total Sulphur %	Water Soluble Chloride g/l	Water Soluble Nitrate g/l	Magnesium g/l	Organic Content %	Mass Loss on Ignition %	Carbonate Content %
WS302	1.20-1.65	SPT	D	6.5	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-
WS304	2.00-2.45	SPT	D	6.7	< 0.010	0.071	0.011	-	-	-	-	-	-
WS306	1.20-1.65	SPT	D	7.3	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-
WS309	1.20	D2	D	7.6	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-
WS312	2.00-2.45	SPT	D	8.2	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-
WS321	1.20-1.65	SPT	D	9.8	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-
WS324	2.00-2.45	SPT	D	7.4	0.010	< 0.010	< 0.010	-	-	-	-	-	-

Tested by Eurofins Chemtest Ltd : MCERTS / UKAS No 2183

[redacted]

Project Number:

GEO / 40474

roject Name:

NEW PLACE FARM, PULBOROUGH

LP3646

GEOLABS

BS EN ISO 17892-4 : 2016

PARTICLE SIZE DISTRIBUTION

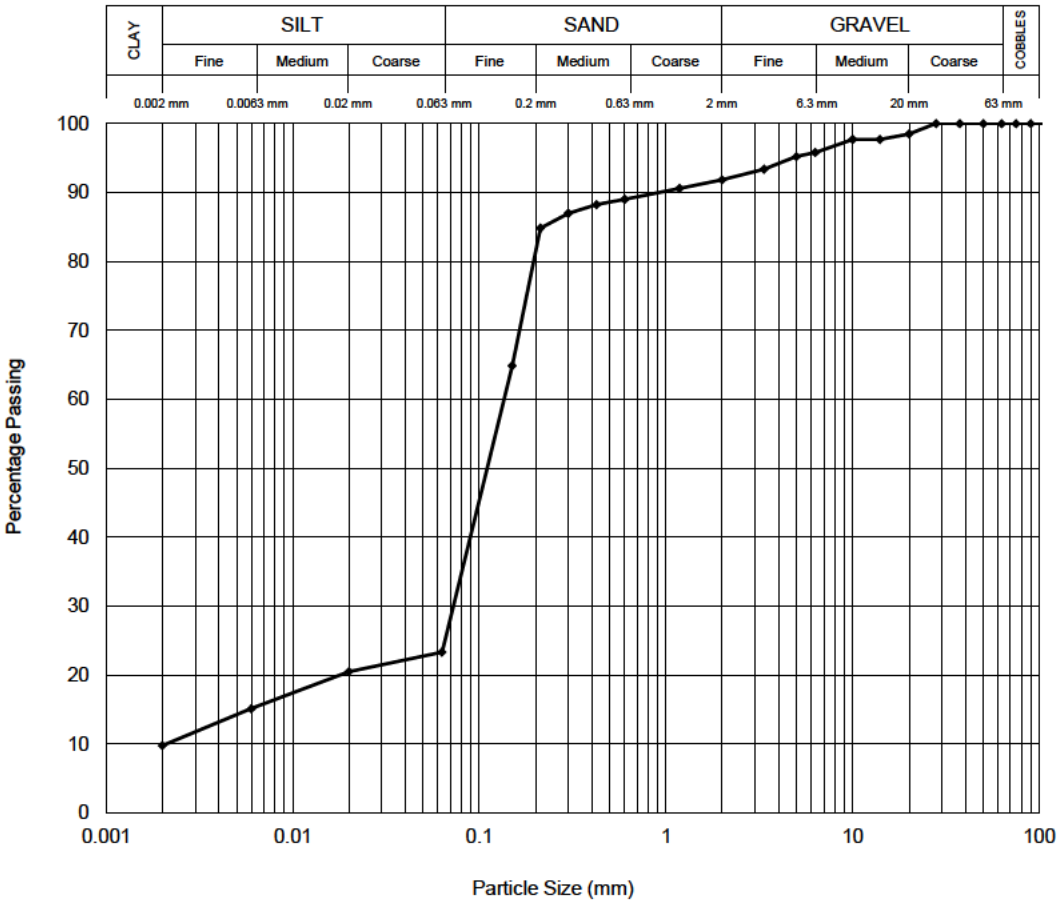
Location	WS302
Sample Ref	D2
Sample Depth	1.50 m
Sample Type	D

Description

Yellowish brown clayey silty gravelly SAND. Gravel is sandstone.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve
BS EN ISO 17892-4 : 2016 : Clause 5.4 - Sedimentation by Pipette

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	100
20.0 mm	98
14.0 mm	98
10.0 mm	98
6.30 mm	96
5.00 mm	95
3.35 mm	93
2.00 mm	92
1.18 mm	91
600 µm	89
425 µm	88
300 µm	87
212 µm	85
150 µm	65
63 µm	23



Sedimentation	
No Pre-treatment used	
Temp (°C)	25.0
Size	% Pass
20 µm	21
6 µm	15
2 µm	10

Particle Density 2.70(A) Mg/m³

Particle Proportions	
Cobbles	0.0
Gravel	8.2
Sand	68.5
Silt	13.5
Clay	9.8

Tested by XW

[redacted]

04/06/2024

Project Number:

GEO / 40474

Project Name:

NEW PLACE FARM, PULBOROUGH
LP3646

GEOLABS
UKAS TESTING
1982

BS EN ISO 17892-4 : 2016

PARTICLE SIZE DISTRIBUTION

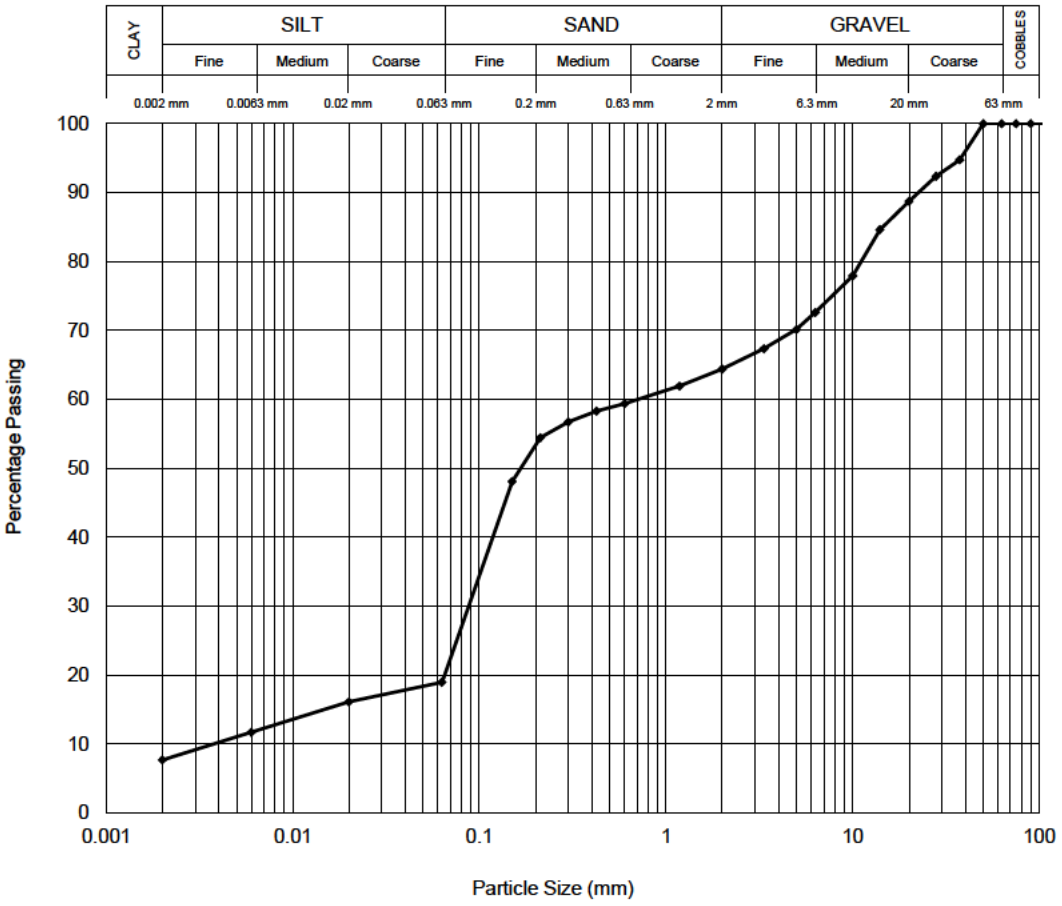
Location	WS306
Sample Ref	D2
Sample Depth	1.50 m
Sample Type	D

Description

Greyish brown clayey silty very gravelly SAND.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve
BS EN ISO 17892-4 : 2016 : Clause 5.4 - Sedimentation by Pipette

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	95
28.0 mm	92
20.0 mm	89
14.0 mm	85
10.0 mm	78
6.30 mm	73
5.00 mm	70
3.35 mm	67
2.00 mm	64
1.18 mm	62
600 µm	59
425 µm	58
300 µm	57
212 µm	54
150 µm	48
63 µm	19



Sedimentation	
No Pre-treatment used	
Temp (°C)	25.0
Size	% Pass
20 µm	16
6 µm	12
2 µm	8
Particle Density 2.70(A) Mg/m³	

Particle Proportions	
Cobbles	0.0
Gravel	35.6
Sand	45.4
Silt	11.3
Clay	7.7

Tested by XW

[redacted]

04/06/2024

oject Number:

GEO / 40474

oject Name:

NEW PLACE FARM, PULBOROUGH
LP3646

GEOLABS
UKAS TESTING
1982

BS EN ISO 17892-4 : 2016

PARTICLE SIZE DISTRIBUTION

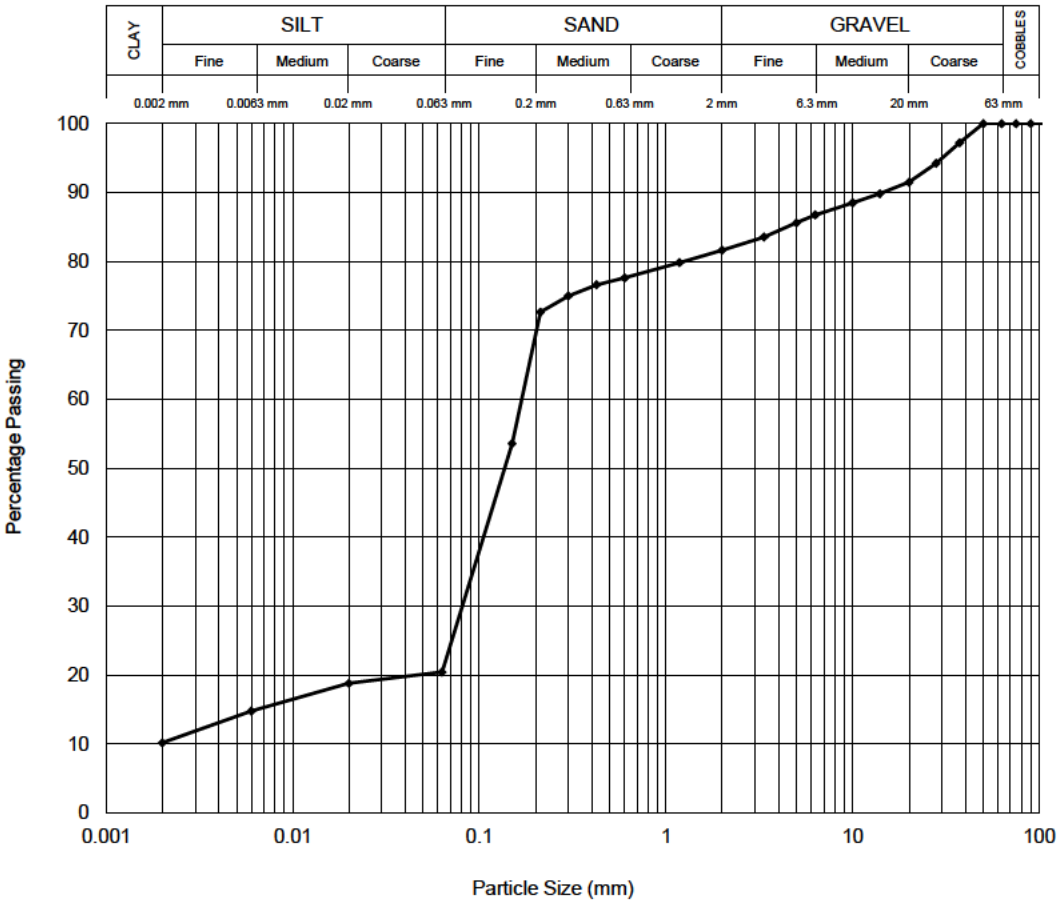
Location	WS308
Sample Ref	D2
Sample Depth	1.80 m
Sample Type	D

Description

Yellowish brown clayey silty gravelly SAND. Gravel is sandstone.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve
BS EN ISO 17892-4 : 2016 : Clause 5.4 - Sedimentation by Pipette

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	97
28.0 mm	94
20.0 mm	91
14.0 mm	90
10.0 mm	89
6.30 mm	87
5.00 mm	86
3.35 mm	84
2.00 mm	82
1.18 mm	80
600 µm	78
425 µm	77
300 µm	75
212 µm	73
150 µm	54
63 µm	20



Sedimentation	
No Pre-treatment used	
Temp (°C)	25.0
Size	% Pass
20 µm	19
6 µm	15
2 µm	10
Particle Density 2.70(A) Mg/m³	

Particle Proportions	
Cobbles	0.0
Gravel	18.4
Sand	61.2
Silt	10.2
Clay	10.2

1-1 262

Tested by XW

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BS EN ISO 17892-4 : 2016

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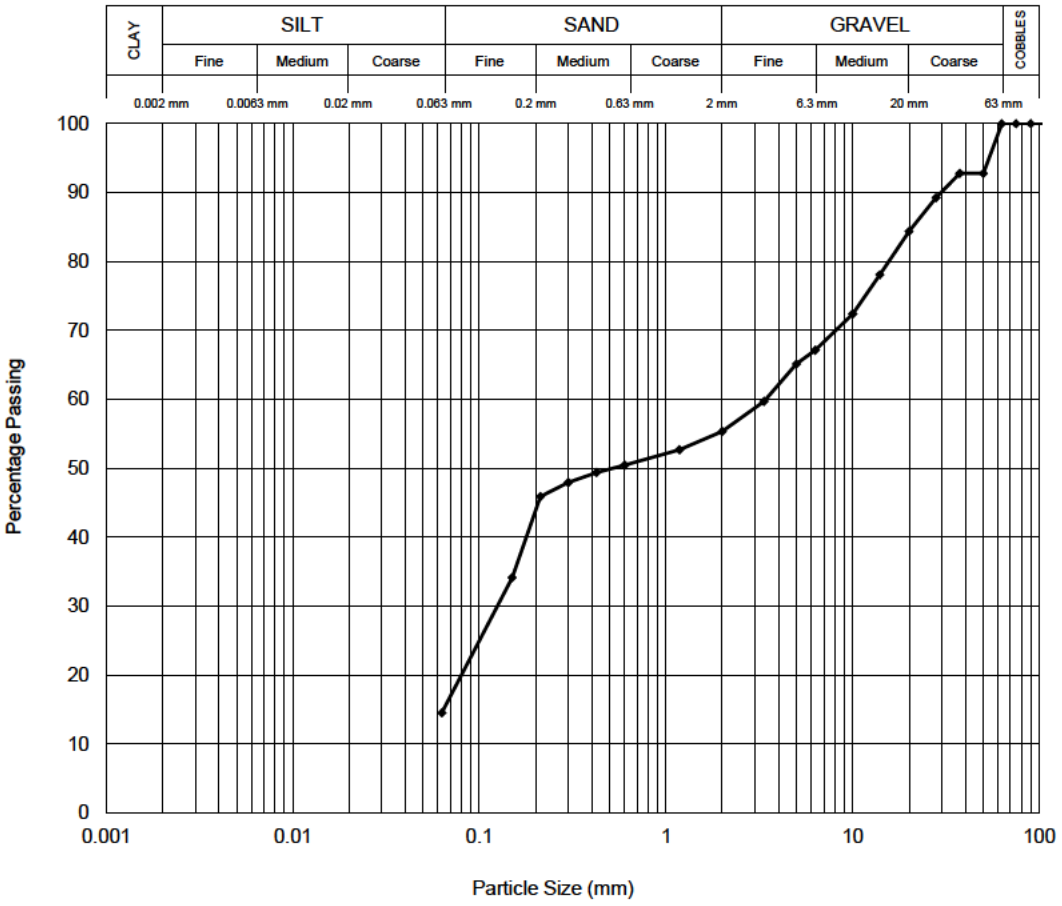
Location	WS311
Sample Ref	D1
Sample Depth	0.80 m
Sample Type	D

Description

Greyish brown silty clayey SAND and GRAVEL. Gravel is sandstone.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	93
37.5 mm	93
28.0 mm	89
20.0 mm	84
14.0 mm	78
10.0 mm	72
6.30 mm	67
5.00 mm	65
3.35 mm	60
2.00 mm	55
1.18 mm	53
600 µm	50
425 µm	49
300 µm	48
212 µm	46
150 µm	34
63 µm	15



Particle Proportions	
Cobbles	0.0
Gravel	44.6
Sand	40.8
Silt & Clay	14.6

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PARTICLE SIZE DISTRIBUTION

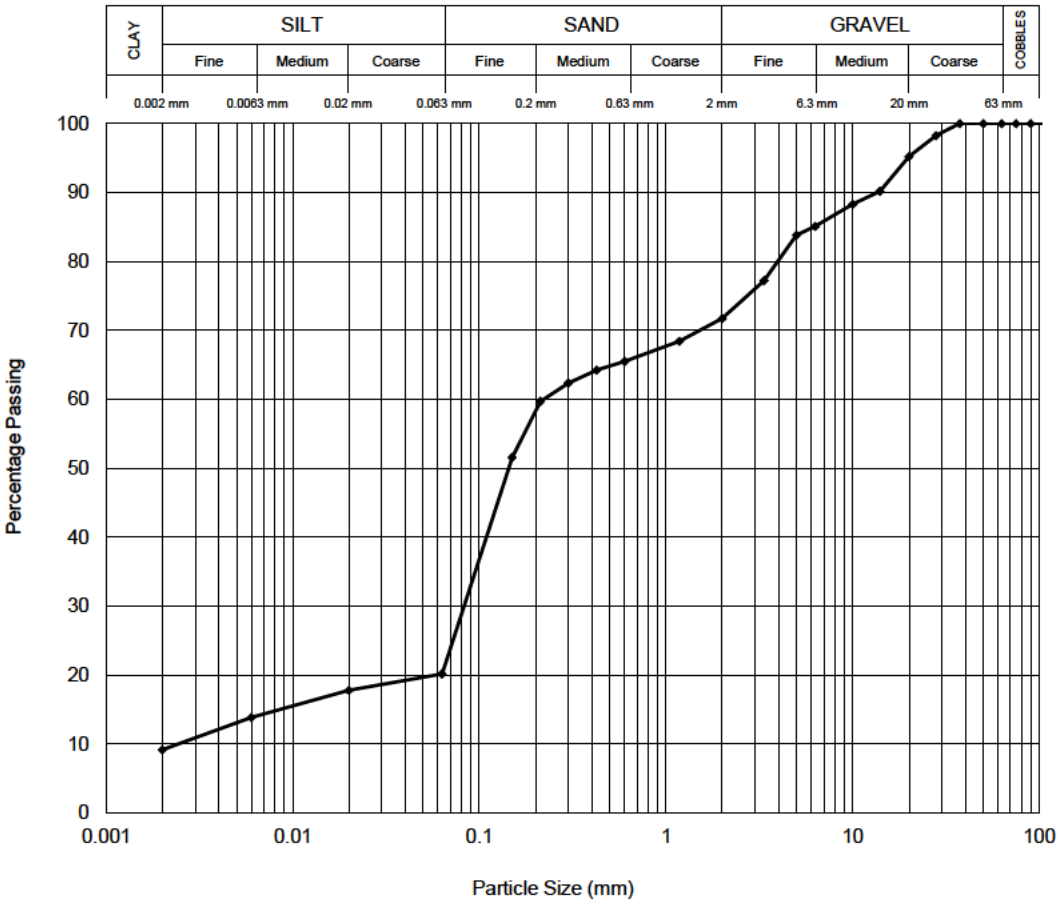
Location	WS313
Sample Ref	D2
Sample Depth	1.80 m
Sample Type	D

Description

Yellowish brown silty clayey very gravely SAND. Gravel is sandstone.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve
BS EN ISO 17892-4 : 2016 : Clause 5.4 - Sedimentation by Pipette

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	98
20.0 mm	95
14.0 mm	90
10.0 mm	88
6.30 mm	85
5.00 mm	84
3.35 mm	77
2.00 mm	72
1.18 mm	68
600 µm	65
425 µm	64
300 µm	62
212 µm	60
150 µm	52
63 µm	20



Sedimentation	
No Pre-treatment used	
Temp (°C)	25.0
Size	% Pass
20 µm	18
6 µm	14
2 µm	9

Particle Density 2.70(A) Mg/m³

Particle Proportions	
Cobbles	0.0
Gravel	28.3
Sand	51.5
Silt	11.0
Clay	9.2

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PARTICLE SIZE DISTRIBUTION

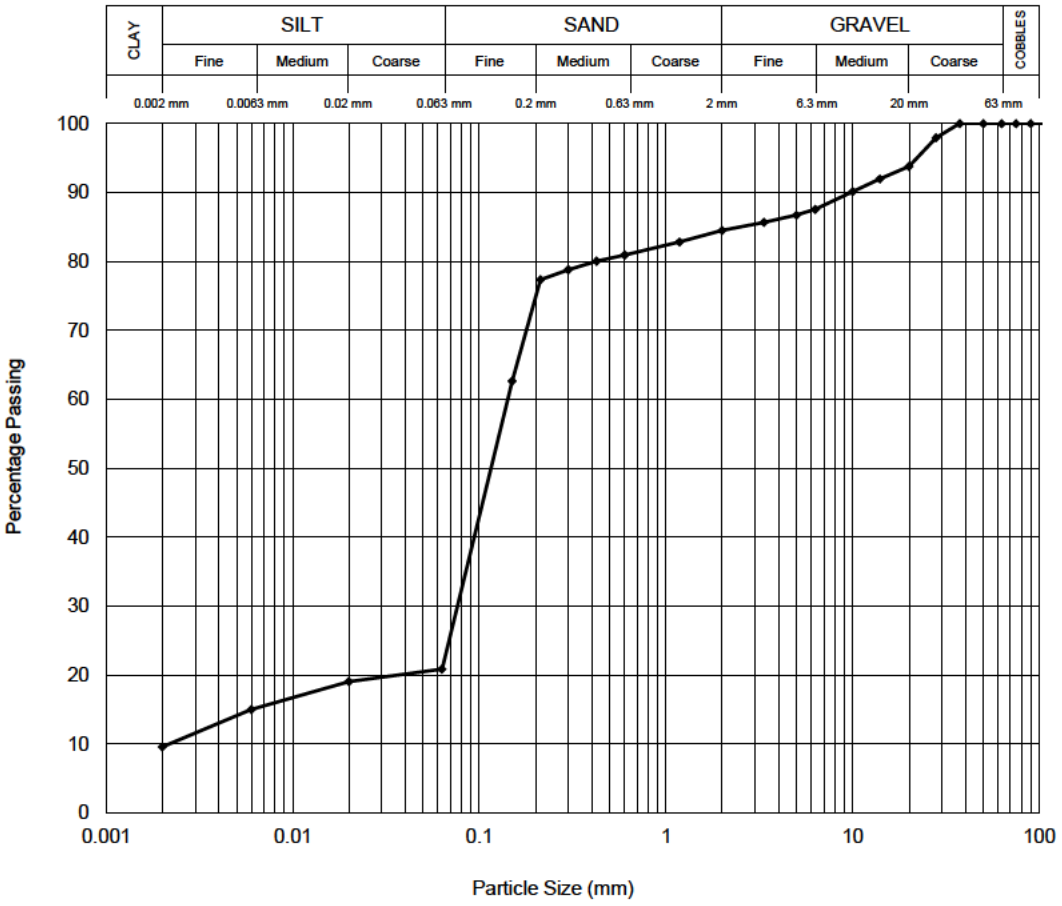
Location	WS316
Sample Ref	D3
Sample Depth	2.40 m
Sample Type	D

Description

Yellowish brown clayey silty gravelly SAND. Gravel is sandstone.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve
BS EN ISO 17892-4 : 2016 : Clause 5.4 - Sedimentation by Pipette

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	98
20.0 mm	94
14.0 mm	92
10.0 mm	90
6.30 mm	88
5.00 mm	87
3.35 mm	86
2.00 mm	85
1.18 mm	83
600 µm	81
425 µm	80
300 µm	79
212 µm	77
150 µm	63
63 µm	21



Sedimentation	
No Pre-treatment used	
Temp (°C)	25.0
Size	% Pass
20 µm	19
6 µm	15
2 µm	10
Particle Density 2.70(A) Mg/m³	

Particle Proportions	
Cobbles	0.0
Gravel	15.5
Sand	63.6
Silt	11.3
Clay	9.6

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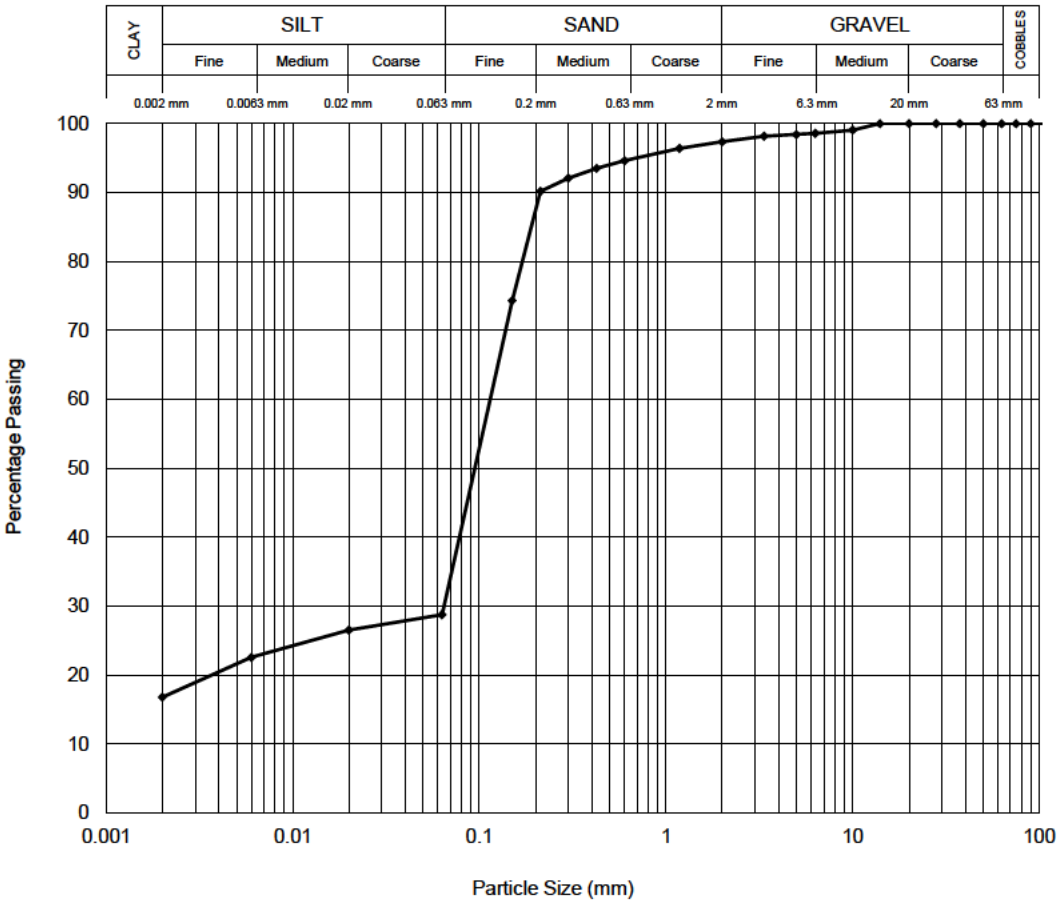
Location	WS320
Sample Ref	D2
Sample Depth	1.60 m
Sample Type	D

Description

Yellowish brown slightly gravelly sandy silty CLAY. Gravel is fine to medium sandstone.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve
BS EN ISO 17892-4 : 2016 : Clause 5.4 - Sedimentation by Pipette

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	100
28.0 mm	100
20.0 mm	100
14.0 mm	100
10.0 mm	99
6.30 mm	99
5.00 mm	98
3.35 mm	98
2.00 mm	97
1.18 mm	96
600 µm	95
425 µm	93
300 µm	92
212 µm	90
150 µm	74
63 µm	29



Sedimentation	
No Pre-treatment used	
Temp (°C)	25.0
Size	% Pass
20 µm	27
6 µm	23
2 µm	17
Particle Density 2.70(A) Mg/m³	

Particle Proportions	
Cobbles	0.0
Gravel	2.7
Sand	68.6
Silt	12.0
Clay	16.7

Tested by XW

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S Burke - Senior Technician
04/06/2024

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Test Report By GEOLABS Limited Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX

Client : Leap Environmental, Southern Coast Regional Office, Victoria Road, Burgess Hill, West Sussex, RH15 9LR

(Ref 1717511163)

BS EN ISO 17892-4 : 2016

PARTICLE SIZE DISTRIBUTION

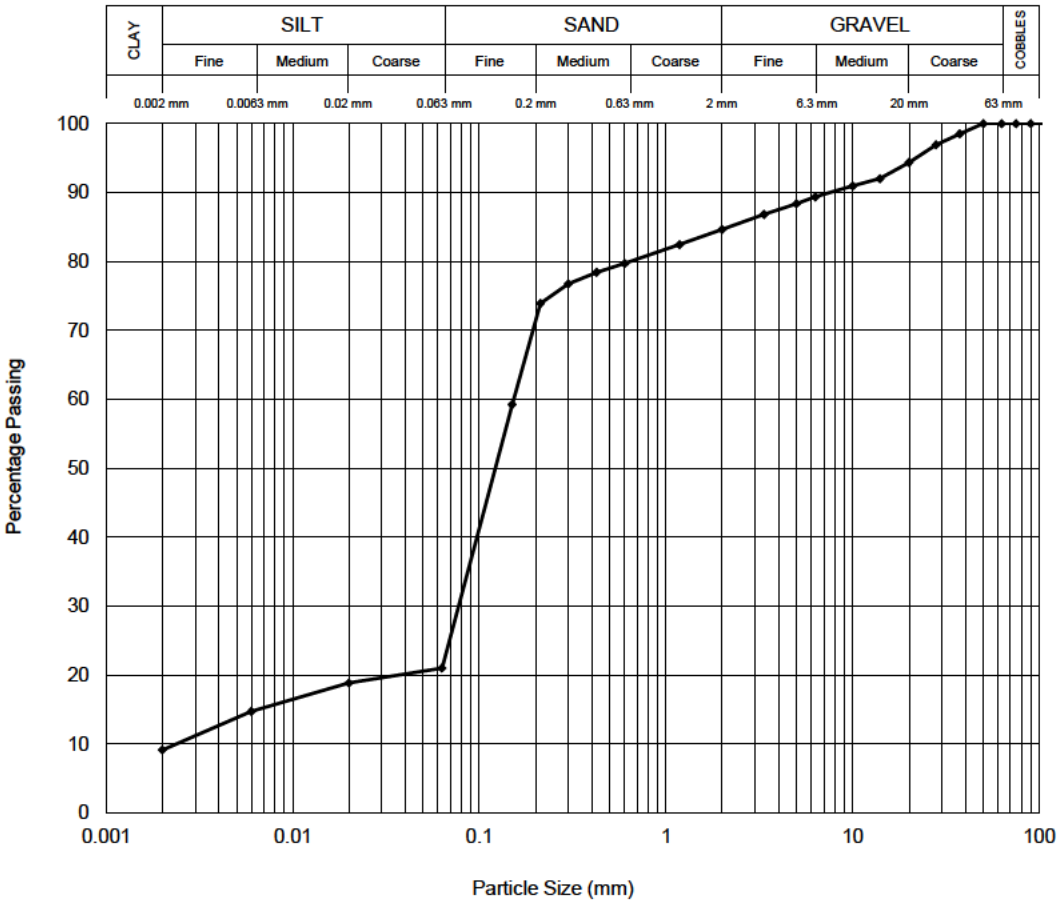
Location	WS323
Sample Ref	D2
Sample Depth	1.60 m
Sample Type	D

Description

Yellowish brown gravelly clayey silty SAND. Gravel is sandstone.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve
BS EN ISO 17892-4 : 2016 : Clause 5.4 - Sedimentation by Pipette

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	98
28.0 mm	97
20.0 mm	94
14.0 mm	92
10.0 mm	91
6.30 mm	89
5.00 mm	88
3.35 mm	87
2.00 mm	85
1.18 mm	82
600 µm	80
425 µm	78
300 µm	77
212 µm	74
150 µm	59
63 µm	21



Sedimentation	
No Pre-treatment used	
Temp (°C)	25.0
Size	% Pass
20 µm	19
6 µm	15
2 µm	9

Particle Density 2.70(A) Mg/m³

Particle Proportions	
Cobbles	0.0
Gravel	15.3
Sand	63.6
Silt	11.9
Clay	9.2

Tested by XW

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1262 - PSD WS323 01.60 D2 D Test WS PP - 40474-625237.XLSM
21-1262 GL

BS EN ISO 17892-4 : 2016

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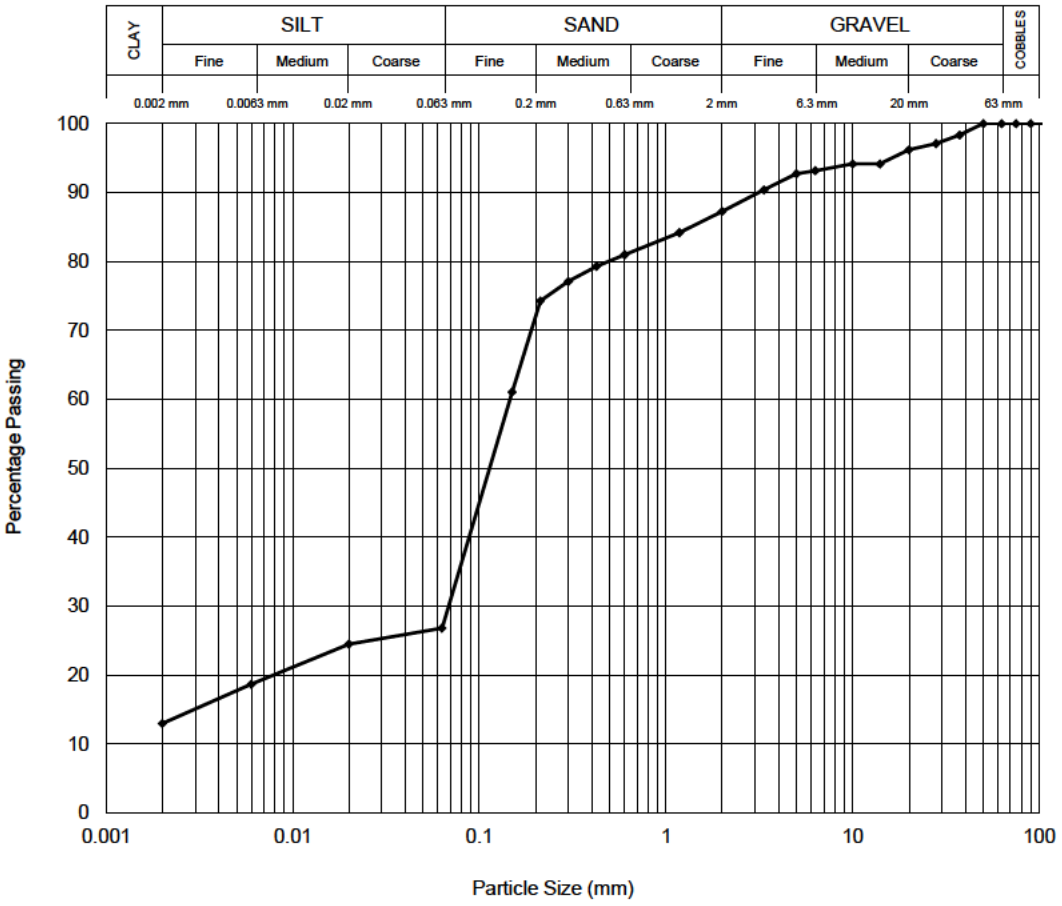
Location	WS324
Sample Ref	D2
Sample Depth	1.50 m
Sample Type	D

Description

Yellowish brown gravelly silty clayey SAND. Gravel is sandstone.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve
BS EN ISO 17892-4 : 2016 : Clause 5.4 - Sedimentation by Pipette

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	98
28.0 mm	97
20.0 mm	96
14.0 mm	94
10.0 mm	94
6.30 mm	93
5.00 mm	93
3.35 mm	90
2.00 mm	87
1.18 mm	84
600 µm	81
425 µm	79
300 µm	77
212 µm	74
150 µm	61
63 µm	27



Sedimentation	
No Pre-treatment used	
Temp (°C)	25.0
Size	% Pass
20 µm	25
6 µm	19
2 µm	13

Particle Density 2.70(A) Mg/m³

Particle Proportions	
Cobbles	0.0
Gravel	12.7
Sand	60.5
Silt	13.8
Clay	13.0

Tested by XW
Checked and Approved by
[redacted]
04/06/2024

Project Number:

GEO / 40474

Project Name:

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Test Report By GEOLABS Limited Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX

Client : Leap Environmental, Southern Coast Regional Office, Victoria Road, Burgess Hill, West Sussex, RH15 9LR

(Ref 1717511177)

APPENDIX H – GEOENVIRONMENTAL ANALYTICAL LABORATORY CERTIFICATES

Hawthorn Farm, Pulborough

Table B: Soil Analytical Results and Human Health QRA

Determinant	Units	LOD	Assessment Criteria Value*	Maximum Detected	Sample Location	HA01	HA04	HA05	HA07	HA08	HA09	HA10	HA11	HA12	HA13	HA14	HA15	HA16	HA17	HA18	WS01	WS02	WS03	WS04	WS05	WS06	WS07	WS08	WS09	WS10	WS11	WS12	WS13	WS14	WS15	WS16	WS17	WS18	WS19	WS20	WS21	WS22	WS23	HA19	HA20	HA21	HA22	HA23	HA24	HA25	HA26
					Depth (m)	0.2	0.2	0.25	0.1	0.1	0.1	0.25	0.25	0.4	0.2	0.25	0.2	0.25	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
					Matrix	TOPSOIL	MADE GROUND	MADE GROUND	MADE GROUND	TOPSOIL	TOPSOIL	MADE GROUND	TOPSOIL	TOPSOIL	TOPSOIL	MADE GROUND	MADE GROUND	MADE GROUND	TOPSOIL	TOPSOIL	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	TOPSOIL	TOPSOIL	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	Peat/Alluvium	NATURAL	TOPSOIL	MADE GROUND	MADE GROUND	MADE GROUND
					Date Sampled	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024
Miscellaneous																																																		
pH	pH units	0.1	n.v.	8.64	7.7	7.6	7.7	8.3	6.8	6.6	6.6	8.4	6.6	6.2	6.3	7.5	7.9	8.5	8.1	7.8	7.6	7.3	6.6	8.8	6.8	7	7.9	8	7.9	8.4	9.6	6.9	8.4	8.7	9	8.7	8.4	9.2	nd	8.3	7.7	8.6	8.1	nd	8.7	8.1	8.1	8.1	8.1	8.1	8.1
Total Organic Carbon	%	0.2	n.v.	4.2	0.48	0.48	0.28	0.31	1.1	0.79	0.35	1.1	4.2	2.6	0.9	0.58	0.49	0.3	0.5	0.55	0.49	0.64	0.58	0.3	0.32	0.61	0.45	0.55	0.48	0.58	1	0.48	0.46	0.5	0.32	1.4	0.55	0.3	3	nd	0.33	0.32	0.4	0.6	nd	0.16	0.18	0.3	0.2	0.2
Soil Organic Matter (=Total Organic Carbon x 1.72)	%	n.v.	n.v.	7.196	0.83	0.84	0.48	0.54	1.89	1.36	0.61	2.28	7.24	4.47	1.55	0.99	0.84	0.52	0.86	0.95	0.83	1.1	1	0.52	0.55	1.05	0.77	0.95	0.83	1	1.72	0.83	0.79	0.86	0.55	2.41	0.95	0.52	5.16	nd	0.57	0.55	0.69	1.03	nd	0.27	0.31	0.52	0.34	0.34
Metals																																																		
Arsenic	mg/kg	0.5	37	36.8	<0.5	<0.5	<0.5	<0.5	6.7	3.8	3.8	3.8	9	8.3	<0.5	<0.5	<0.5	5.7	<0.5	8.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.7	<0.5	4.3	<0.5	11	36.8	4.3	nd	0.8	10.4
Cadmium	mg/kg	0.3	22	3.3	0.4	0.3	<0.3	0.4	<0.3	<0.3	0.3	0.5	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	<0.3	<0.3	0.6	0.6	0.3	<0.3	<0.3	<0.3	<0.3	0.5	0.3	0.3	<0.3	0.5	0.3	0.4	0.3	0.3	0.5	0.3	0.5	0.3	0.3	<0.3	<0.3	0.3	nd	0.3	<0.3	0.3	0.4	nd	0.3	3.3
Chromium	mg/kg	1	910	41.8	7.4	2.9	< 1.0	2.4	8.1	1.6	9.5	11.9	7.3	7.4	11.4	6.7	3	4.2	4.6	2.9	41.8	4.8	6.1	4.6	2.8	3.1	7.9	8	2.5	2.8	1.1	< 1.0	2	3	9.9	< 1.0	21.1	6.7	19.4	7.3	24.1	13.6	nd	3.4	2.9	8.7	3.8	nd	21.6	1.4
Chromium VI	mg/kg	0.8	33	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	nd	<0.8	<0.8	<0.8	<0.8	nd	<0.8	<0.8
Copper	mg/kg	4	2,400	88.5	30.5	16.6	14.4	20.1	29.4	23.5	24.8	34.8	29.1	14.3	79.2	44.4	31.9	17.9	23.5	21.9	84.2	15.2	4	9.5	17.7	24.5	21.1	24.6	17.8	29.2	37.1	23.4	26	9.9	27.8	15.2	8.3	56.5	38.2	14.3	22.9	29.7	46.5	nd	38.7	24.2	17.6	26.6	nd	26.6	11
Lead	mg/kg	2	200	376	37.2	27.7	14.6	29.3	21.7	25.4	24.4	26.1	18.6	27.7	26.4	39.8	24.3	17.7	26.4	28.8	21.7	26.4	7.4	9	16.8	28.4	14	20.5	29.3	24.5	29.3	15.7	16.7	24.8	27.5	15.1	43.9	29.2	29.4	33%	25.9	29.9	nd	24.9	18.5	29.8	28.6	nd	15.2	21.8
Mercury	mg/kg	0.8	40	0.7	0.2	0.2	0.2	0.2	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	<0.1	<0.1	0.1	0.2	0.2	<0.1	<0.1	0.2	<0.1	0.7	0.2	0.1	0.2	<0.1	<0.1	nd	<0.1	<0.1	0.2	0.2	nd	0.2	0.2
Nickel	mg/kg	1	110	59.8	15.6	7.3	4.6	5.3	9.3	5.5	8.4	8.1	8.9	7.5	11.9	7.6	7.6	4.2	4.3	3.7	8.9	8.3	17.7	8.6	6.6	6.8	4.2	5.1	4	5.3	6.3	4.9	5.4	14	5.1	6.3	20.8	11.3	16.7	6.3	14.9	5.4	11.9	6.3	nd	7.3	5.5	13.4	12.3	nd	11.6	11.7
Selenium	mg/kg	1	250	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	nd	<1.0	<1.0	<1.0	<1.0	nd	<1.0	<1.0
Zinc	mg/kg	4.3	3,700	470	226	91	42.3	49.6	78	36.7	34.7	49.7	41.3	49.4	67.8	67.2	34.8	33.3	33.3	37.3	49.7	34.6	36.1	19.4	14.8	48.6	42.3	39.4	49	43.7	37.8	48.4	38.3	38	32	18.9	77.2	38	63	87.4	106	83	nd	109	39.2	28.1	89	nd	89.9	47.9
Asbestos																																																		
Asbestos Identification	-	-	Present	n.a.	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD
Polycyclic Aromatic Hydrocarbons (USEPA 16)																																																		
Benzo(a)pyrene	mg/kg	0.05	3.2	19.7	0.53	0.29	<0.05	0.34	<0.05	<0.05	0.11	<0.05	<0.05	0.84	0.23	0.28	<0.05	<0.05	0.09	0.05	<0.05	<0.05	0.07	0.23	<0.05	<0.05	0.84	<0.05	<0.05	0.86	<0.05	0.11	0.06	<0.05	0.89	0.08	0.77	0.39	0.67	19.7	nd	0.07	0.05	0.06	0.83	nd	<0.05	0.05
Naphthalene	mg/kg	0.05	2.3	2.16	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Acenaphthene	mg/kg	0.05	n.v.	2.22	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Acenaphthene	mg/kg	0.05	n.v.	6.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Fluorene	mg/kg	0.05	n.v.	4.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Phenanthrene	mg/kg	0.05	n.v.	19.2	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.21	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Anthracene	mg/kg	0.05	n.v.	5.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Fluoranthene	mg/kg	0.05	n.v.	37.5	<0.05	<0.05	<0.05	0.05	0.07	<0.05	<0.05	0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Pyrene	mg/kg	0.05	n.v.	33.9	0.06	0.05	0.05	0.06	0.08	0.05	0.05	0.07	0.05	0.15	0.06	0.05	0.05	0.05	0.07	0.05	0.05	0.05	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	nd	0.05	0.05	0.05	0.05	nd	0.05	0.05
Benzo(a)anthracene	mg/kg	0.05	n.v.	44.8	<0.05	0.05	<0.05	0.08	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	0.05	0.09	0.07	0.05	<0.05	<0.05	0.08	0.06	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Chrysene	mg/kg	0.05	n.v.	43.8	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	0.05	0.09	0.07	0.05	<0.05	<0.05	0.08	0.06	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Benzo(b)fluoranthene	mg/kg	0.05	n.v.	49.7	0.06	0.05	<0.05	0.08	0.07	<0.05	<0.05	0.07	0.05	0.13	0.05	0.09	0.07	0.05	<0.05	<0.05	0.08	0.06	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Benzo(j)fluoranthene	mg/kg	0.05	n.v.	26.4	0.03	0.03	<0.05	0.05	0.04	<0.05	<0.05	0.04	<0.05	0.08	0.03	0.05	0.04	<0.05	<0.05	<0.05	0.05	0.04	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	n.v.	19.2	0.03	0.03	<0.05	0.04	<0.05	<0.05	<0.05	0.03	<0.05	0.07	0.03	0.04	<0.05	<0.05	<0.05	<0.05	0.04	0.03	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Dibenz(a,h)anthracene	mg/kg	0.05	n.v.	7.29	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Benzo(g)perylene	mg/kg	0.05	n.v.	26.4	0.03	0.03	0.05	0.03	0.05	<0.05	<0.05	0.03	0.1	0.1	0.04	<0.05	<0.05	0.07	0.07	<0.05	0.07	0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05	<0.05	<0.05	nd	<0.05	<0.05
Total PAH (16)	mg/kg	0.24	n.v.	376	<0.24	<0.24	<0.24	2.66	<0.24	<0.24	0.71	<0.24	<0.24	2.46	<0.24	<0.24	<0.24	0.91	0.24	0.48	3.61	2.46	<0.24	<0.24	0.91	0.33	<0.24	<0.24	0.27	1.24	<0.24	<0.24	<0.24	0.27	<0.24	<0.24	0.4	<0.24	0.38	0.78	<0.24	7.91	0.46	3.9	3.48	0.67	376	nd	0.79	<0.24	0.39	<0.24	nd	0.34	<0.24
Petroleum Hydrocarbons																																																		
>C5-C6 Aliphatic	mg/kg	0.01	42	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<0.01	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	<0.01	nd	nd	nd	nd	nd	nd
>C6-C8 Aliphatic	mg/kg	0.01	100	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<0.01	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	<0.01	nd	nd	nd	nd	nd	nd
>C8-C10 Aliphatic	mg/kg	1	27	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
>C10-C12 Aliphatic	mg/kg	1	130	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
>C12-C16 Aliphatic	mg/kg	1	1100	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
>C16-C21 Aliphatic	mg/kg	1	65000	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
>C21-C34 Aliphatic	mg/kg	1	65000	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
Total Aliphatics	mg/kg	8	n.v	<8	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<8	<8	nd	nd	nd	nd	nd	nd	nd	nd	<8	nd	nd	nd	nd	nd	nd
>C5-C7 Aromatic	mg/kg	0.01	70	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<0.01	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	<0.01	nd	nd	nd	nd	nd	nd
>C7-C8 Aromatic	mg/kg	0.01	130	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<0.01	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	<0.01	nd	nd	nd	nd	nd	nd
>C8-C10 Aromatic	mg/kg	1	34	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
>C10-C12 Aromatic	mg/kg	1	74	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
>C12-C16 Aromatic	mg/kg	1	140	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
>C16-C21 Aromatic	mg/kg	1	260	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
>C21-C35 Aromatic	mg/kg	1	1100	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
Total Aromatics	mg/kg	8	n.v	<8	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<8	<8	nd	nd	nd	nd	nd	nd	nd	nd	<8	nd	nd	nd	nd	nd	nd
Total (>C5-C35) Aliphs	mg/kg	40	n.v	<40	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<40	<40	nd	nd	nd	nd	nd	nd	nd	nd	<40	nd	nd	nd	nd	nd	nd
Benzene	µg/kg	1	330	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
Toluene	µg/kg	1	130000	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
Ethylbenzene	µg/kg	1	47000	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
p &/or m-xylene	µg/kg	1	56000	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
o-xylene	µg/kg	1	56000	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
Methyl tert-butyl Ether	µg/kg	1	45000	<1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<1	<1	nd	nd	nd	nd	nd	nd	nd	nd	<1	nd	nd	nd	nd	nd	nd
Triazine Herbicides																																																		
Atrazine	mg/kg	0.01		0	nd	nd	nd	<0.01	nd	nd	nd	<0.01	nd	nd	nd	<0.01	nd	nd	nd	nd	nd	nd	nd	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<0.01
Simazine	mg/kg	0.01		0	nd	nd	nd	<0.01	nd	nd	nd	<0.01	nd	nd	nd	<0.01	nd	nd	nd	nd	nd	nd	nd	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<0.01
Terbuthylazine	mg/kg	0.01		0	nd	nd	nd	<0.01	nd	nd	nd	<0.01	nd	nd	nd	<0.01	nd	nd	nd	nd	nd	nd	nd	<0.01	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

envirolab
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Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT
SUPPLEMENT TO TEST REPORT 24/04349/1

Amendments: Request for Additional Analysis

Envirolab Job Number: 24/04349
Issue Number: 2 **Date:** 03 June, 2024

Client: RSK Environment Ltd (Leap Burgess Hill)
South Coast Regional Office,
Premier House,
Victoria Road
Burgess Hill,
West Sussex,
RH15 9LR

Project Manager: Alec Lloyd/Isaac Betts/Martin Weil/Peter Millis
Project Name: New Place Farm, Pulborough (LP3646)
Project Ref: 3750605
Order No: N/A
Date Samples Received: 01/05/24
Date Instructions Received: 01/05/24
Date Analysis Completed: 03/06/24

Approved by:

[redacted]

Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 24/04349

Client Project Name: New Place Farm, Pulborough (LP3646)

Client Project Ref: 3750605

Lab Sample ID	24/04349/1	24/04349/2	24/04349/3	24/04349/4	24/04349/5	24/04349/6	24/04349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SPW1	SPW2	SPW3	SPW4	SPW5	SPW6	SPW7			
Depth to Top					0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	22-Apr-24	22-Apr-24	22-Apr-24	22-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	4AE	4ACE	4ACE	4AE	4AE	4AE	4ADE			
% Moisture at <40C$_A$	22.2	16.0	18.7	24.4	25.4	22.4	21.4	% w/w	0.1	A-T-044
% Stones >10mm$_A$	3.9	9.3	1.4	10.7	9.5	5.2	21.6	% w/w	0.1	A-T-044
Asbestos in soil$_D$$^{\#}$	NAD	NAD	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual)$_D$	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope)$_D$	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045
pH (As Rec'd Uncrushed Rock / Concrete / Solid)$_A$	7.29	7.31	8.98	6.53	8.14	7.53	7.65	pH	0.01	A-T-031s (AR)
Arsenic$_D$$^{M\#}$	51	19	61	<1	65	79	34	mg/kg	1	A-T-024s
Cadmium$_D$$^{M\#}$	0.9	<0.5	0.6	<0.5	0.6	0.9	0.7	mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	131	129	195	70	255	200	100	mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	48	24	44	4	61	65	42	mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead$_D$$^{M\#}$	32	34	19	5	33	67	27	mg/kg	1	A-T-024s
Mercury$_D$	0.38	0.34	1.07	<0.17	0.49	0.35	0.31	mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	12	8	13	3	10	15	9	mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	334	3340	276	54	389	294	206	mg/kg	5	A-T-024s
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	2	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12$_A$$^{M\#}$	<1	2	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16$_A$$^{M\#}$	<1	6	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C16-C21$_A$$^{M\#}$	<1	5	<1	5	1	<1	2	mg/kg	1	A-T-055s
Ali >C21-C35$_A$$^{M\#}$	10	77	6	115	11	9	21	mg/kg	1	A-T-055s
Total Aliphatics$_A$	10	98	6	131	12	9	25	mg/kg	1	Calc-As Recd
Aro >C5-C7$_A$$^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A$$^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	10	<1	1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	27	<1	1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	2	62	2	6	2	2	2	mg/kg	1	A-T-055s
Aro >C16-C21$_A$$^{M\#}$	4	12	4	26	4	4	5	mg/kg	1	A-T-055s
Aro >C21-C35$_A$$^{M\#}$	4	5	2	44	4	5	6	mg/kg	1	A-T-055s

Lab Sample ID	24/04349/1	24/04349/2	24/04349/3	24/04349/4	24/04349/5	24/04349/6	24/04349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SPW1	SPW2	SPW3	SPW4	SPW5	SPW6	SPW7			
Depth to Top					0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	22-Apr-24	22-Apr-24	22-Apr-24	22-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	4AE	4ACE	4ACE	4AE	4AE	4AE	4ADE			
Aro >C35-C40$_A$	<1	2	<1	20	<1	<1	2	mg/kg	1	A-T-055s
Total Aromatics$_A$	10	118	8	98	10	11	15	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	20	216	15	229	22	20	40	mg/kg	1	Calc-As Recd
EPH CWG GCxGC ID Interpretation$_A$	Concentration too low to identify	Unresolved hydrocarbon mixture C8-44	Concentration too low to identify	Unresolved hydrocarbon mixture C12-44	Concentration too low to identify	Concentration too low to identify	Unresolved hydrocarbon mixture C12-44			A-T-055s
BTEX - Benzene$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	<1	5	<1	12	<1	<1	2	mg/kg	1	A-T-055s
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)										
Dichlobenil$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Tecnazene$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Trifluralin$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
alpha-Hexachlorocyclohexane (HCH)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Hexachlorobenzene (HCB) $_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Simazine$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Atrazine$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
beta-Hexachlorocyclohexane (HCH)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Quintozene (PCNB)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Chlorothalonil$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
delta-Hexachlorocyclohexane (HCH)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Triallate$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Heptachlor$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Aldrin$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Triadimefon$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Telodrin$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Isodrin$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Pendimethalin$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056

Lab Sample ID	24/04349/1	24/04349/2	24/04349/3	24/04349/4	24/04349/5	24/04349/6	24/04349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SPW1	SPW2	SPW3	SPW4	SPW5	SPW6	SPW7			
Depth to Top					0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	22-Apr-24	22-Apr-24	22-Apr-24	22-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	4AE	4ACE	4ACE	4AE	4AE	4AE	4ADE			
Heptachlor epoxide$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
trans-Chlordane (Gamma)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
o,p-DDE (2,4)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endosulphan I (Alpha)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
cis-Chlordane (Alpha)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
p,p-DDE (4,4)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Dieldrin$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
o,p-DDD (2,4)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endrin$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endosulphan II (Beta)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
p,p-DDD (4,4)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
o,p-DDT (2,4)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endrin Aldehyde$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endrin Ketone$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endosulphan Sulphate$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
p,p-DDT (4,4)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
o,p-Methoxychlor$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
p,p-Methoxychlor$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Permethrin I (cis)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Permethrin II (trans)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Dichlorvos$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Mevinphos$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Demeton-S$_A$	<0.50	-	-	-	-	-	-	mg/kg	0.5	A-T-056
Demeton-O$_A$	<0.50	-	-	-	-	-	-	mg/kg	0.5	A-T-056
Phorate$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Dimethoate$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Propetamphos$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Diazinon (Dimpylate)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Disulfoton$_A$	<0.10	-	-	-	-	-	-	mg/kg	0.1	A-T-056
Chlorpyrifos-methyl$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Parathion (Ethyl Parathion)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Methyl Parathion$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Pirimiphos-methyl$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056

Envirolab Job Number: 24/04349

Client Project Name: New Place Farm, Pulborough (LP3646)

Client Project Ref: 3750605

Lab Sample ID	24/04349/1	24/04349/2	24/04349/3	24/04349/4	24/04349/5	24/04349/6	24/04349/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SPW1	SPW2	SPW3	SPW4	SPW5	SPW6	SPW7			
Depth to Top					0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	22-Apr-24	22-Apr-24	22-Apr-24	22-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	4AE	4ACE	4ACE	4AE	4AE	4AE	4ADE			
Fenitrothion$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Fensulphothion$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Fenthion$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Malathion$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Chlorfenvinphos$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Chlorpyrifos$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Trichloronate$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Prothiofos (Tokuthion)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Ethion$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Triazophos$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Carbophenothion$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Phosalone$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Azinphos-methyl$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Azinphos-ethyl$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Coumaphos$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
gamma-Hexachlorocyclohexane (HCH)$_A$	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056

Envirolab Job Number: 24/04349

Client Project Name: New Place Farm, Pulborough (LP3646)

Client Project Ref: 3750605

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Client Sample No										
Client Sample ID	SPW1	SPW2	SPW3	SPW4	SPW5	SPW6	SPW7			
Depth to Top					0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	22-Apr-24	22-Apr-24	22-Apr-24	22-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	4AE	4ACE	4ACE	4AE	4AE	4AE	4ADE			
PAH-16MS										
Acenaphthene$_A^{M\#}$	<0.01	0.08	<0.01	<0.01	<0.01	0.02	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	<0.04	0.06	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08	<0.08	<0.08	<0.08	<0.08	0.20	0.10	mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	0.09	<0.01	<0.01	<0.01	0.02	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	1.74	0.04	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	0.05	0.05	<0.03	<0.03	0.16	0.05	mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07	<0.07	0.13	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	<0.08	1.99	0.09	<0.08	<0.08	0.63	0.26	mg/kg	0.01	A-T-019s

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Client Project Ref: 3750605

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Client Sample No										
Client Sample ID	SPW1	SPW2	SPW3	SPW4	SPW5	SPW6	SPW7			
Depth to Top					0.10	0.10	0.10			
Depth To Bottom										
Date Sampled	22-Apr-24	22-Apr-24	22-Apr-24	22-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	4AE	4ACE	4ACE	4AE	4AE	4AE	4ADE			
Triazine Herbicides (x 8)										
Atrazine$_A$	<0.02	-	-	-	-	-	-	µg/l	0.02	Subcon RPS MH
Cyanazine$_A$	<0.02	-	-	-	-	-	-	µg/l	0.02	Subcon RPS MH
Prometryn$_A$	<0.02	-	-	-	-	-	-	µg/l	0.02	Subcon RPS MH
Propazine$_A$	<0.02	-	-	-	-	-	-	µg/l	0.02	Subcon RPS MH
Trietazine$_A$	<0.02	-	-	-	-	-	-	µg/l	0.02	Subcon RPS MH
Simazine$_A$	<0.02	-	-	-	-	-	-	µg/l	0.02	Subcon RPS MH
Terbuthylazine$_A$	<0.02	-	-	-	-	-	-	µg/l	0.02	Subcon RPS MH
Terbutryn$_A$	<0.02	-	-	-	-	-	-	µg/l	0.02	Subcon RPS MH

Envirolab Job Number: 24/04349

Client Project Name: New Place Farm, Pulborough (LP3646)

Client Project Ref: 3750605

Lab Sample ID	24/04349/8	24/04349/9	24/04349/10	24/04349/12	24/04349/14			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SPW8	SPW9	SPW10	SPW13	SPW15					
Depth to Top	0.10	0.10								
Depth To Bottom										
Date Sampled	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4ADE	4ADE	4AE	4AE	4AE					
% Moisture at <40C$_A$	21.9	18.4	28.9	38.0	52.8			% w/w	0.1	A-T-044
% Stones >10mm$_A$	7.1	6.3	<0.1	13.7	<0.1			% w/w	0.1	A-T-044
Asbestos in soil$_D^{\#}$	NAD	NAD	NAD	NAD	NAD					A-T-045
Asbestos Matrix (visual)$_D$	-	-	-	-	-					A-T-045
Asbestos Matrix (microscope)$_D$	-	-	-	-	-					A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	N/A	N/A	N/A	N/A					A-T-045
pH (As Rec'd Uncrushed Rock / Concrete / Solid)$_A$	7.55	7.83	4.67	5.58	4.82			pH	0.01	A-T-031s (AR)
Arsenic$_D^{M\#}$	12	17	2	<1	<1			mg/kg	1	A-T-024s
Cadmium$_D^{M\#}$	<0.5	<0.5	<0.5	<0.5	<0.5			mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	29	48	36	33	55			mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	24	21	5	3	4			mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1			mg/kg	1	A-T-040s
Lead$_D^{M\#}$	15	14	5	4	5			mg/kg	1	A-T-024s
Mercury$_D$	<0.17	0.27	<0.17	<0.17	<0.17			mg/kg	0.17	A-T-024s
Nickel$_D^{M\#}$	8	9	2	2	2			mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	<1	<1	1	<1	1			mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	118	126	33	22	32			mg/kg	5	A-T-024s
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	3	<2	<2			mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<2	<2	<2			mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<2	<2	<2			mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	1	<1	10	11	8			mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	30	16	311	551	297			mg/kg	1	A-T-055s
Total Aliphatics$_A$	34	17	373	651	343			mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	2	<1	7	<2	<2			mg/kg	1	A-T-055s
Aro >C10-C12$_A$	2	<1	6	6	4			mg/kg	1	A-T-055s
Aro >C12-C16$_A$	4	2	17	17	15			mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	11	5	93	54	55			mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	14	5	214	109	100			mg/kg	1	A-T-055s

Lab Sample ID	24/04349/8	24/04349/9	24/04349/10	24/04349/12	24/04349/14			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SPW8	SPW9	SPW10	SPW13	SPW15					
Depth to Top	0.10	0.10								
Depth To Bottom										
Date Sampled	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4ADE	4ADE	4AE	4AE	4AE					
Aro >C35-C40$_A$	6	1	103	85	55			mg/kg	1	A-T-055s
Total Aromatics$_A$	39	13	439	270	229			mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	74	30	812	921	572			mg/kg	1	Calc-As Recd
EPH CWG GCxGC ID Interpretation$_A$	Unresolved hydrocarbon mixture C12-44	Unresolved hydrocarbon mixture C12-44	Unresolved hydrocarbon mixture C12-44	Unresolved hydrocarbon mixture C12-44	Unresolved hydrocarbon mixture C12-44					A-T-055s
BTEX - Benzene$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - Toluene$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
MTBE$_A$#	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	4	1	49	89	38			mg/kg	1	A-T-055s
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)										
Dichlobenil$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Tecnazene$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Trifluralin$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
alpha-Hexachlorocyclohexane (HCH)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Hexachlorobenzene (HCB) $_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Simazine$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Atrazine$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
beta-Hexachlorocyclohexane (HCH)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Quintozene (PCNB)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Chlorothalonil$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
delta-Hexachlorocyclohexane (HCH)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Triallate$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Heptachlor$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Aldrin$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Triadimefon$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Telodrin$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Isodrin$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Pendimethalin$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056

Lab Sample ID	24/04349/8	24/04349/9	24/04349/10	24/04349/12	24/04349/14			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SPW8	SPW9	SPW10	SPW13	SPW15					
Depth to Top	0.10	0.10								
Depth To Bottom										
Date Sampled	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4ADE	4ADE	4AE	4AE	4AE					
Heptachlor epoxide$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
trans-Chlordane (Gamma)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
o,p-DDE (2,4)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Endosulphan I (Alpha)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
cis-Chlordane (Alpha)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
p,p-DDE (4,4)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Dieldrin$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
o,p-DDD (2,4)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Endrin$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Endosulphan II (Beta)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
p,p-DDD (4,4)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
o,p-DDT (2,4)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Endrin Aldehyde$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Endrin Ketone$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Endosulphan Sulphate$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
p,p-DDT (4,4)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
o,p-Methoxychlor$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
p,p-Methoxychlor$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Permethrin I (cis)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Permethrin II (trans)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Dichlorvos$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Mevinphos$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Demeton-S$_A$	-	-	<0.50	-	-			mg/kg	0.5	A-T-056
Demeton-O$_A$	-	-	<0.50	-	-			mg/kg	0.5	A-T-056
Phorate$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Dimethoate$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Propetamphos$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Diazinon (Dimpylate)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Disulfoton$_A$	-	-	<0.10	-	-			mg/kg	0.1	A-T-056
Chlorpyrifos-methyl$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Parathion (Ethyl Parathion)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Methyl Parathion$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Pirimiphos-methyl$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056

Envirolab Job Number: 24/04349

Client Project Name: New Place Farm, Pulborough (LP3646)

Client Project Ref: 3750605

Lab Sample ID	24/04349/8	24/04349/9	24/04349/10	24/04349/12	24/04349/14			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SPW8	SPW9	SPW10	SPW13	SPW15					
Depth to Top	0.10	0.10								
Depth To Bottom										
Date Sampled	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4ADE	4ADE	4AE	4AE	4AE					
Fenitrothion$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Fensulphothion$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Fenthion$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Malathion$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Chlorfenvinphos$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Chlorpyrifos$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Trichloronate$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Prothiofos (Tokuthion)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Ethion$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Triazophos$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Carbophenothion$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Phosalone$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Azinphos-methyl$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Azinphos-ethyl$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
Coumaphos$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056
gamma-Hexachlorocyclohexane (HCH)$_A$	-	-	<0.01	-	-			mg/kg	0.01	A-T-056

Envirolab Job Number: 24/04349

Client Project Name: New Place Farm, Pulborough (LP3646)

Client Project Ref: 3750605

Lab Sample ID	24/04349/8	24/04349/9	24/04349/10	24/04349/12	24/04349/14			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SPW8	SPW9	SPW10	SPW13	SPW15					
Depth to Top	0.10	0.10								
Depth To Bottom										
Date Sampled	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4ADE	4ADE	4AE	4AE	4AE					
PAH-16MS										
Acenaphthene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	<0.02	<0.02	<0.02	<0.02			mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	<0.04			mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	<0.04			mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07	<0.07			mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	<0.06	<0.06	<0.06	<0.06			mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene$_A$	<0.04	<0.04	<0.04	<0.04	<0.04			mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08	<0.08	<0.08	<0.08	<0.08			mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03			mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03			mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03			mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07	<0.07			mg/kg	0.07	A-T-019s
Total PAH-16MS$_A$	<0.08	<0.08	<0.08	<0.08	<0.08			mg/kg	0.01	A-T-019s

Envirolab Job Number: 24/04349

Client Project Name: New Place Farm, Pulborough (LP3646)

Client Project Ref: 3750605

Lab Sample ID	24/04349/8	24/04349/9	24/04349/10	24/04349/12	24/04349/14			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SPW8	SPW9	SPW10	SPW13	SPW15					
Depth to Top	0.10	0.10								
Depth To Bottom										
Date Sampled	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4ADE	4ADE	4AE	4AE	4AE					
Triazine Herbicides (x 8)										
Atrazine$_A$	-	-	<0.02	-	-			µg/l	0.02	Subcon RPS MH
Cyanazine$_A$	-	-	<0.02	-	-			µg/l	0.02	Subcon RPS MH
Prometryn$_A$	-	-	<0.02	-	-			µg/l	0.02	Subcon RPS MH
Propazine$_A$	-	-	<0.02	-	-			µg/l	0.02	Subcon RPS MH
Trietazine$_A$	-	-	<0.02	-	-			µg/l	0.02	Subcon RPS MH
Simazine$_A$	-	-	<0.02	-	-			µg/l	0.02	Subcon RPS MH
Terbuthylazine$_A$	-	-	<0.02	-	-			µg/l	0.02	Subcon RPS MH
Terbutryn$_A$	-	-	<0.02	-	-			µg/l	0.02	Subcon RPS MH

Report Notes

General
This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and Interpretations expressed are outside our scope of accreditation.
The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "A*"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

Asbestos
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing, and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the accreditation range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: RSK Environment Ltd (Leap Burgess Hill), South Coast Regional Office, Premier House, Victoria Road, Burgess Hill, West Sussex, RH15 9LR

Project: New Place Farm, Pulborough (LP3646)

Clients Project No: 3750605

Project No: 24/04349

Date Received: 01/05/2024 (am)

Cool Box Temperatures (°C): 13.2 - 13.8

Lab Sample ID	24/04349/2	24/04349/3	24/04349/4
Client Sample No			
Client Sample ID/Depth	SPW2	SPW3	SPW4
Date Sampled	22/04/24	22/04/24	22/04/24
Deviation Code			
F	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	24/04349/2	24/04349/3	24/04349/4
Client Sample No			
Client Sample ID/Depth	SPW2	SPW3	SPW4
Date Sampled	22/04/24	22/04/24	22/04/24
VPHCWG	✓	✓	✓
Total Organic Carbon			✓
Mineral Oil (>C10-C40)			✓
PAH (total 17)			✓
PCB Total			✓
BTEX (total)			✓

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples 5 ± 3°C), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	24/04349/1	24/04349/2	24/04349/3	24/04349/4	24/04349/5	24/04349/6	24/04349/7	24/04349/8	24/04349/9	24/04349/10	24/04349/12	24/04349/14
Client Sample No												
Client Sample ID/Depth	SPW1	SPW2	SPW3	SPW4	SPW5 0.10m	SPW6 0.10m	SPW7 0.10m	SPW8 0.10m	SPW9 0.10m	SPW10	SPW13	SPW15
Date Sampled	22/04/24	22/04/24	22/04/24	22/04/24	25/04/24	25/04/24	25/04/24	25/04/24	25/04/24	25/04/24	25/04/24	25/04/24
A-T-004s	07/05/2024	07/05/2024		30/05/2024			07/05/2024					
A-T-007s	08/05/2024	08/05/2024		31/05/2024			08/05/2024					
A-T-019s	07/05/2024	07/05/2024	07/05/2024	30/05/2024	07/05/2024	07/05/2024	07/05/2024	07/05/2024	07/05/2024	07/05/2024	07/05/2024	07/05/2024
A-T-022s	08/05/2024	10/05/2024	10/05/2024	30/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	08/05/2024	10/05/2024	10/05/2024	10/05/2024
A-T-024s	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024
A-T-025w	22/05/2024	22/05/2024		03/06/2024			22/05/2024					
A-T-026w	22/05/2024	22/05/2024		03/06/2024			22/05/2024					
A-T-026w (F)	22/05/2024	22/05/2024		03/06/2024			22/05/2024					
A-T-030s	09/05/2024	09/05/2024		31/05/2024			09/05/2024					
A-T-031s	08/05/2024	08/05/2024		31/05/2024			08/05/2024					
A-T-031s (AR)	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024
A-T-031w	22/05/2024	22/05/2024		03/06/2024			22/05/2024					
A-T-032s	10/05/2024	10/05/2024		31/05/2024			10/05/2024					
A-T-032w	22/05/2024	22/05/2024		03/06/2024			22/05/2024					
A-T-037w	22/05/2024	22/05/2024		03/06/2024			22/05/2024					
A-T-040s	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024
A-T-044	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024
A-T-045	02/05/2024	02/05/2024	02/05/2024	02/05/2024	02/05/2024	02/05/2024	02/05/2024	02/05/2024	02/05/2024	02/05/2024	02/05/2024	02/05/2024
A-T-050w	22/05/2024	22/05/2024		03/06/2024			22/05/2024					
A-T-055s	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024	09/05/2024
A-T-056	08/05/2024									08/05/2024		
A-T-ANCs	10/05/2024	10/05/2024		31/05/2024			10/05/2024					
Calc	02/05/2024	02/05/2024					02/05/2024					
Calc-As Recd	08/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	10/05/2024	08/05/2024	10/05/2024	10/05/2024	10/05/2024
Calc-no stones	22/05/2024	22/05/2024		03/06/2024			22/05/2024					
Probe (w)	22/05/2024	22/05/2024		03/06/2024			22/05/2024					

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Elab Customer Services
The Environmental Laboratory Ltd
Unit 42, Windmill Road
Ponswood Industrial Estate
St Leonards-on-Sea
East Sussex
TN38 9BY

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

DETS Report No: 24-04799

Site Reference:	24-53591
Project / Job Ref:	TPHCWG Analysis
Order No:	PO-12509
Sample Receipt Date:	02/05/2024
Sample Scheduled Date:	02/05/2024
Report Issue Number:	1
Reporting Date:	09/05/2024

[redacted]
Customer Support Manager

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

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

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

4480

Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 24-04799	~Date Sampled	23/04/24	24/04/24	24/04/24	24/04/24	
The Environmental Laboratory Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
~Site Reference: 24-53591	~TP / BH No	359952	359962	359963	359970	
~Project / Job Ref: TPHCWG Analysis	~Additional Refs	WS315	HA301	HA302	HA329	
~Order No: PO-12509	~Depth (m)	0.50	0.20	0.25	0.10	
Reporting Date: 09/05/2024	DETS Sample No	712969	712970	712971	712972	

Determinand	Unit	RL	Accreditation		(n)	(n)	(n)	
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	

~ Sample details provided by the customer
(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

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

4480

Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-04799	~Date Sampled	23/04/24	24/04/24	24/04/24	24/04/24	
The Environmental Laboratory Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
~Site Reference: 24-53591	~TP / BH No	359952	359962	359963	359970	
~Project / Job Ref: TPHCWG Analysis	~Additional Refs	WS315	HA301	HA302	HA329	
~Order No: PO-12509	~Depth (m)	0.50	0.20	0.25	0.10	
Reporting Date: 09/05/2024	DETS Sample No	712969	712970	712971	712972	

Determinand	Unit	RL	Accreditation		(n)	(n)	(n)	
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	

~ Sample details provided by the customer
(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

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

Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 24-04799	
The Environmental Laboratory Ltd	
~Site Reference: 24-53591	
~Project / Job Ref: TPHCWG Analysis	
~Order No: PO-12509	
Reporting Date: 09/05/2024	

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
712969	359952	WS315	0.50	13.2	Brown sandy clay with stones
712970	359962	HA301	0.20	9.1	Light brown sandy gravel with stones
712971	359963	HA302	0.25	9.4	Brown sandy gravel with stones
712972	359970	HA329	0.10	8.8	Brown sandy gravel with stones

Moisture content is part of procedure E003 & is not an accredited test
Insufficient Sample I/S
Unsuitable Sample U/S
~ Sample details provided by the customer

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

Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 24-04799
The Environmental Laboratory Ltd
~Site Reference: 24-53591
~Project / Job Ref: TPHCWG Analysis
~Order No: PO-12509
Reporting Date: 09/05/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received
~ Sample details provided by the customer

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

UKAS TESTING 2683

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Certificate of Analysis

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	24-53591
Issue:	1
Date of Issue:	10/05/2024
Contact:	Peter Millis
Customer Details:	RSK Environment Book House Glebelands Centre Dorking SurrevRH4 3HW
Quotation No:	Q24-04573
Order No:	Not Supplied
Customer Reference:	LP3646
Date Received:	26/04/2024
Date Approved:	10/05/2024
Details:	3750605
Approved by:	[redacted]

Tim Reeve, Technical Coordinator

Sample Summary

Report No.: 24-53591, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
359921	HA316 0.10	22/04/2024	30/04/2024	Silty loam	
359922	HA324 0.30	22/04/2024	30/04/2024	Silty loam	
359923	HA325 0.35	22/04/2024	30/04/2024	Sandy silty loam	
359924	HA317 0.20	22/04/2024	30/04/2024	Loamy sand	
359925	HA328 0.10	23/04/2024	30/04/2024	Silty loam	
359926	HA327 0.10	23/04/2024	30/04/2024	Sandy silty loam	
359927	HA326 0.15	23/04/2024	30/04/2024	Sandy loam	
359928	HA322 0.20	23/04/2024	30/04/2024		
359929	HA323 0.15	23/04/2024	30/04/2024	Silty loam	
359930	HA321 0.40	23/04/2024	30/04/2024	Silty loam	
359931	HA320 0.10	23/04/2024	30/04/2024	Silty loam	
359932	HA319 0.05	23/04/2024	30/04/2024	Silty loam	
359933	HA312 0.15	25/04/2024	30/04/2024	Silty loam	
359934	HA313 0.10	25/04/2024	30/04/2024	Sandy loam	
359935	HA310 0.10	25/04/2024	30/04/2024	Loamy sand	
359936	HA307 0.05	25/04/2024	30/04/2024	Sandy silty loam	
359937	HA314 0.10	25/04/2024	30/04/2024	Sandy silty loam	
359938	WS301 0.20	24/04/2024	30/04/2024	Sandy silty loam	
359939	WS302 0.50	24/04/2024	30/04/2024	Loamy sand	
359940	WS303 0.30	24/04/2024	30/04/2024	Sandy loam	
359941	WS304 0.20	24/04/2024	30/04/2024	Sandy silty loam	
359942	WS305 0.20	24/04/2024	30/04/2024	Sandy loam	
359943	WS306 0.30	24/04/2024	30/04/2024	Loamy sand	
359944	WS307 0.10	25/04/2024	30/04/2024	Loamy sand	
359945	WS308 0.30	25/04/2024	30/04/2024	Loamy sand	
359946	WS309 0.30	25/04/2024	30/04/2024	Loamy sand	
359947	WS310 0.20	25/04/2024	30/04/2024		
359948	WS311 0.10	22/04/2024	30/04/2024	Sandy loam	
359949	WS312 0.20	22/04/2024	30/04/2024	Sandy loam	
359950	WS313 0.10	22/04/2024	30/04/2024	Loamy sand	
359951	WS314 0.20	22/04/2024	30/04/2024		
359952	WS315 0.50	23/04/2024	30/04/2024	Loamy sand	
359953	WS316 0.10	23/04/2024	30/04/2024	Loamy sand	
359954	WS317 0.40	25/04/2024	30/04/2024		
359955	WS318 0.20	23/04/2024	30/04/2024	Loamy sand	
359956	WS319 0.30	23/04/2024	30/04/2024		
359957	WS320 0.10	23/04/2024	30/04/2024	Sandy loam	
359958	WS321 0.20	23/04/2024	30/04/2024	Sandy loam	
359959	WS322 0.10	23/04/2024	30/04/2024	Loamy sand	
359960	WS323 0.10	22/04/2024	30/04/2024	Loamy sand	
359961	WS324 0.30	22/04/2024	30/04/2024		
359962	HA301 0.20	24/04/2024	30/04/2024	Loamy sand	
359963	HA302 0.20	24/04/2024	30/04/2024	Sandy loam	
359964	HA303 0.25	24/04/2024	30/04/2024	Sandy silty loam	
359965	HA303 0.30	24/04/2024	30/04/2024		
359966	HA305 0.30	24/04/2024	30/04/2024	Loamy sand	
359967	HA309 0.10	24/04/2024	30/04/2024	Sandy silty loam	
359968	HA311 0.10	24/04/2024	30/04/2024	Sandy loam	
359969	HA315 0.10	24/04/2024	30/04/2024	Silty loam	
359970	HA329 0.15	24/04/2024	30/04/2024	Loamy sand	
359971	HA308 0.10	24/04/2024	30/04/2024	Sandy silty loam	

Results Summary

Report No.: 24-53591, issue number 1

			ELAB Reference	359921	359922	359923	359924	359925	359926
			Customer Reference						
			Sample ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	HA316	HA324	HA325	HA317	HA328	HA327
			Sample Depth (m)	0.10	0.30	0.35	0.20	0.10	0.10
			Sampling Date	22/04/2024	22/04/2024	22/04/2024	22/04/2024	23/04/2024	23/04/2024
Determinand	**Codes**	**Units**	**LOD**						
Soil sample preparation parameters									
Moisture Content	N	%	0.1	8.8	9.9	9.2	8.8	20.7	15.3
Material removed	N	%	0.1	14.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	Stones	None	None	None	None	None
Metals									
Arsenic	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	M	mg/kg	0.2	0.4	0.3	< 0.2	0.4	< 0.2	< 0.2
Chromium	M	mg/kg	1	7.4	2.9	< 1.0	2.4	1.2	1.4
Copper	M	mg/kg	4	35.5	26.6	14.6	13.3	10.6	12.5
Lead	M	mg/kg	1	37.1	27.7	16.6	39.3	13.7	15.4
Mercury	M	mg/kg	0.1	0.2	0.3	0.3	0.1	< 0.1	< 0.1
Nickel	M	mg/kg	1	11.6	7.2	4.6	5.3	5.5	5.5
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	4.5	226	82.0	42.5	45.6	38.0	36.7
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous									
pH	M	pH units	0.1	7.7	7.8	7.7	8.3	6.8	6.6
Total Organic Carbon	N	%	0.01	0.48	0.43	0.25	0.21	1.1	0.73
Polyaromatic hydrocarbons									
Naphthalene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthylene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluorene	S	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	0.03	< 0.02	< 0.02
Anthracene	S	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluoranthene	SM	mg/kg	0.02	0.04	0.03	0.02	0.24	0.03	0.03
Pyrene	SM	mg/kg	0.02	0.04	0.03	0.03	0.26	0.03	0.03
Benzo(a)anthracene	S	mg/kg	0.02	< 0.02	0.02	< 0.02	0.21	< 0.02	< 0.02
Chrysene	SM	mg/kg	0.02	< 0.03	< 0.03	< 0.03	0.24	< 0.03	< 0.03
Benzo(b)fluoranthene	SM	mg/kg	0.02	0.04	0.03	< 0.02	0.40	< 0.02	0.03
Benzo(k)fluoranthene	SM	mg/kg	0.03	< 0.03	< 0.03	< 0.03	0.16	< 0.03	< 0.03
Benzo(a)pyrene	S	mg/kg	0.02	0.03	0.03	< 0.02	0.36	< 0.02	< 0.02
Indeno(1,2,3-cd)pyrene	SM	mg/kg	0.02	0.03	0.03	< 0.02	0.34	< 0.02	< 0.02
Dibenzo(a,h)anthracene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	0.07	< 0.02	< 0.02
Benzo[g,h,i]perylene	SM	mg/kg	0.02	0.03	0.03	0.02	0.33	0.02	0.02
Total PAH(16)	NS	mg/kg	0.34	< 0.34	< 0.34	< 0.34	2.64	< 0.34	< 0.34

Results Summary

Report No.: 24-53591, issue number 1

				ELAB Reference	359921	359922	359923	359924	359925	359926
				Customer Reference						
				Sample ID						
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	HA316	HA324	HA325	HA317	HA328	HA327
				Sample Depth (m)	0.10	0.30	0.35	0.20	0.10	0.10
				Sampling Date	22/04/2024	22/04/2024	22/04/2024	22/04/2024	23/04/2024	23/04/2024
Determinand	**Codes**	**Units**	**LOD**							
OrganoChlorine Pesticides										
alpha-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
beta_HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
gamma-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
delta-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
Heptachlor	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
Aldrin	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
trans-Chlordane	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
p,p-DDE	N	ug/kg	10	n/t	n/t	37	n/t	n/t	< 10
Dieldrin	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
Endrin	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
p,p-DDD	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
Endosulfan II	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
Endrin aldehyde	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
p,p-DDT	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
Endosulphan sulphate	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
Methoxychlor	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
Endrin ketone	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	< 10
OrganoPhosphorus Pesticides										
Acephate	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Aziniphos-methyl	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Chlorpyrifos	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Demeton-s-methyl	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Dichlorvos	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Dimethoate	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Ethion	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Malathion	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Mathidathion	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Methamidophos	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Omethoate	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Pirimifos-methyl	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Profenofos	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Pyrazophos	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Tokuthion	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Tolclofos-methyl	N	ug/kg	100	n/t	n/t	< 100	n/t	n/t	< 100
Triazines										
Ametryn	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Atrazine	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Atraton	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Prometon	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Prometryn	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Propazine	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Secbumeton	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Simazine	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Simetryn	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Terbuthylazine	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01
Terbutryn	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t	< 0.01

Results Summary

Report No.: 24-53591, issue number 1

			ELAB Reference	359927	359929	359930	359931	359932	359933
			Customer Reference						
			Sample ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	HA326	HA323	HA321	HA320	HA319	HA312
			Sample Depth (m)	0.15	0.15	0.40	0.10	0.05	0.15
			Sampling Date	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	25/04/2024
Determinand	**Codes**	**Units**	**LOD**						
Soil sample preparation parameters									
Moisture Content	N	%	0.1	10.1	15.8	24.2	16.4	21.0	9.0
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	16.1
Description of Inert material removed	N		0	None	None	None	None	None	Stones
Metals									
Arsenic	M	mg/kg	0.5	4.7	2.1	2.8	3.1	9.0	1.5
Cadmium	M	mg/kg	0.2	0.3	0.2	< 0.2	< 0.2	< 0.2	0.3
Chromium	M	mg/kg	1	8.5	13.9	7.3	7.4	15.4	8.7
Copper	M	mg/kg	4	24.8	15.1	16.3	79.1	64.6	35.9
Lead	M	mg/kg	1	24.6	16.1	15.6	17.7	16.4	29.8
Mercury	M	mg/kg	0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Nickel	M	mg/kg	1	15.9	6.6	8.1	8.9	7.1	12.9
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	4.5	54.7	49.7	42.5	43.6	67.8	67.2
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous									
pH	M	pH units	0.1	8.4	6.6	6.2	6.1	7.5	7.8
Total Organic Carbon	N	%	0.01	0.32	1.5	2.7	1.4	4.3	2.6
Polyaromatic hydrocarbons									
Naphthalene	SM	mg/kg	0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthylene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03
Acenaphthene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluorene	S	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	SM	mg/kg	0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.32
Anthracene	S	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.08
Fluoranthene	SM	mg/kg	0.02	0.07	< 0.02	0.02	0.02	0.08	0.77
Pyrene	SM	mg/kg	0.02	0.13	0.02	0.03	0.03	0.07	0.72
Benzo(a)anthracene	S	mg/kg	0.02	0.07	< 0.02	< 0.02	< 0.02	0.05	0.38
Chrysene	SM	mg/kg	0.02	0.07	< 0.03	< 0.03	< 0.03	0.05	0.35
Benzo(b)fluoranthene	SM	mg/kg	0.02	0.13	< 0.02	< 0.02	< 0.02	0.05	0.58
Benzo(k)fluoranthene	SM	mg/kg	0.03	0.05	< 0.03	< 0.03	< 0.03	< 0.03	0.19
Benzo(a)pyrene	S	mg/kg	0.02	0.11	< 0.02	< 0.02	< 0.02	0.04	0.53
Indeno(1,2,3-cd)pyrene	SM	mg/kg	0.02	0.10	< 0.02	< 0.02	< 0.02	0.03	0.47
Dibenzo(a,h)anthracene	SM	mg/kg	0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.10
Benzo[g,h,i]perylene	SM	mg/kg	0.02	0.13	< 0.02	< 0.02	< 0.02	0.03	0.50
Total PAH(16)	NS	mg/kg	0.34	0.92	< 0.34	< 0.34	< 0.34	0.41	5.01

Results Summary

Report No.: 24-53591, issue number 1

				ELAB Reference	359927	359929	359930	359931	359932	359933
				Customer Reference						
				Sample ID						
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	HA326	HA323	HA321	HA320	HA319	HA312
				Sample Depth (m)	0.15	0.15	0.40	0.10	0.05	0.15
				Sampling Date	23/04/2024	23/04/2024	23/04/2024	23/04/2024	23/04/2024	25/04/2024
Determinand	**Codes**	**Units**	**LOD**							
OrganoChlorine Pesticides										
alpha-HCH	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
beta_HCH	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
gamma-HCH	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
delta-HCH	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
Heptachlor	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
Aldrin	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
trans-Chlordane	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
p,p-DDE	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
Dieldrin	N	ug/kg	10	23	n/t	n/t	< 10	n/t	n/t
Endrin	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
p,p-DDD	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
Endosulfan II	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
Endrin aldehyde	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
p,p-DDT	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
Endosulphan sulphate	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
Methoxychlor	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
Endrin ketone	N	ug/kg	10	< 10	n/t	n/t	< 10	n/t	n/t
OrganoPhosphorus Pesticides										
Acephate	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Aziniphos-methyl	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Chlorpyrifos	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Demeton-s-methyl	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Dichlorvos	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Dimethoate	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Ethion	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Malathion	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Mathidathion	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Methamidophos	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Omethoate	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Pirimifos-methyl	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Profenofos	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Pyrazophos	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Tokuthion	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Tolclofos-methyl	N	ug/kg	100	< 100	n/t	n/t	< 100	n/t	n/t
Triazines										
Ametryn	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t
Atrazine	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t
Atraton	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t
Prometon	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t
Prometryn	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t
Propazine	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t
Secbumeton	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t
Simazine	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t
Simetryn	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t
Terbuthylazine	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t
Terbutryn	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01	n/t	n/t

Results Summary

Report No.: 24-53591, issue number 1

				ELAB Reference	359934	359935	359936	359937	359938	359939
				Customer Reference						
				Sample ID						
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	HA313	HA310	HA307	HA314	WS301	WS302
				Sample Depth (m)	0.10	0.10	0.05	0.10	0.20	0.50
				Sampling Date	25/04/2024	25/04/2024	25/04/2024	25/04/2024	24/04/2024	24/04/2024
Determinand	**Codes**	**Units**	**LOD**							
Soil sample preparation parameters										
Moisture Content	N	%	0.1		7.2	12.5	14.0	17.9	11.6	11.4
Material removed	N	%	0.1		14.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0		Stones	None	None	None	None	None
Metals										
Arsenic	M	mg/kg	0.5		< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5
Cadmium	M	mg/kg	0.2		0.3	< 0.2	< 0.2	< 0.2	0.3	< 0.2
Chromium	M	mg/kg	1		3.0	4.2	4.6	2.9	81.8	4.8
Copper	M	mg/kg	4		19.9	12.5	13.9	14.2	15.2	6.0
Lead	M	mg/kg	1		34.3	15.1	17.3	15.7	50.6	7.4
Mercury	M	mg/kg	0.1		< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1
Nickel	M	mg/kg	1		7.6	4.1	4.5	3.9	8.9	8.5
Selenium	M	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	4.5		54.1	35.3	35.3	37.5	45.7	18.8
Inorganics										
Hexavalent Chromium	N	mg/kg	0.8		< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous										
pH	M	pH units	0.1		8.2	6.4	6.2	7.3	7.9	5.9
Total Organic Carbon	N	%	0.01		0.90	0.28	0.49	1.5	0.55	0.09
Polyaromatic hydrocarbons										
Naphthalene	SM	mg/kg	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthylene	SM	mg/kg	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthene	SM	mg/kg	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluorene	S	mg/kg	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	SM	mg/kg	0.02		0.07	< 0.02	< 0.02	0.05	0.04	< 0.02
Anthracene	S	mg/kg	0.02		< 0.02	< 0.02	< 0.02	0.05	< 0.02	< 0.02
Fluoranthene	SM	mg/kg	0.02		0.28	0.02	0.02	0.13	0.08	< 0.02
Pyrene	SM	mg/kg	0.02		0.26	0.03	0.03	0.12	0.08	< 0.02
Benzo(a)anthracene	S	mg/kg	0.02		0.17	< 0.02	< 0.02	0.08	0.04	< 0.02
Chrysene	SM	mg/kg	0.02		0.22	< 0.03	< 0.03	0.09	0.06	< 0.03
Benzo(b)fluoranthene	SM	mg/kg	0.02		0.33	< 0.02	< 0.02	0.10	0.06	< 0.02
Benzo(k)fluoranthene	SM	mg/kg	0.03		0.13	< 0.03	< 0.03	0.04	< 0.03	< 0.03
Benzo(a)pyrene	S	mg/kg	0.02		0.28	< 0.02	< 0.02	0.09	0.05	< 0.02
Indeno(1,2,3-cd)pyrene	SM	mg/kg	0.02		0.32	< 0.02	< 0.02	0.08	0.06	< 0.02
Dibenzo(a,h)anthracene	SM	mg/kg	0.02		0.07	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Benzo[g,h,i]perylene	SM	mg/kg	0.02		0.34	< 0.02	< 0.02	0.07	0.07	< 0.02
Total PAH(16)	NS	mg/kg	0.34		2.46	< 0.34	< 0.34	0.91	0.55	< 0.34

Results Summary

Report No.: 24-53591, issue number 1

				ELAB Reference	359934	359935	359936	359937	359938	359939
				Customer Reference						
				Sample ID						
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	HA313	HA310	HA307	HA314	WS301	WS302
				Sample Depth (m)	0.10	0.10	0.05	0.10	0.20	0.50
				Sampling Date	25/04/2024	25/04/2024	25/04/2024	25/04/2024	24/04/2024	24/04/2024
Determinand	**Codes**	**Units**	**LOD**							
OrganoChlorine Pesticides										
alpha-HCH	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
beta_HCH	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
gamma-HCH	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
Aldrin	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDE	N	ug/kg	10	51	n/t	n/t	n/t	n/t	n/t
Dieldrin	N	ug/kg	10	17	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDD	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
p,p-DDT	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t	n/t
OrganoPhosphorus Pesticides										
Acephate	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Aziniphos-methyl	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Chlorpyrifos	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Demeton-s-methyl	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Dichlorvos	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Dimethoate	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Ethion	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Malathion	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Mathidathion	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Methamidophos	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Omethoate	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Pirimifos-methyl	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Profenofos	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Pyrazophos	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Tokuthion	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Tolclofos-methyl	N	ug/kg	100	< 100	n/t	n/t	n/t	n/t	n/t
Triazines										
Ametryn	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Atrazine	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Atraton	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Prometon	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Prometryn	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Propazine	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Secbumeton	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Simazine	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Simetryn	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Terbuthylazine	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t
Terbutryn	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 24-53591, issue number 1

				ELAB Reference	359940	359941	359942	359943	359944	359945
				Customer Reference						
				Sample ID						
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	WS303	WS304	WS305	WS306	WS307	WS308
				Sample Depth (m)	0.30	0.20	0.20	0.30	0.10	0.30
				Sampling Date	24/04/2024	24/04/2024	24/04/2024	24/04/2024	25/04/2024	25/04/2024
Determinand	**Codes**	**Units**	**LOD**							
Soil sample preparation parameters										
Moisture Content	N	%	0.1		16.1	10.0	10.8	11.2	14.5	13.9
Material removed	N	%	0.1		14.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0		Stones	None	None	None	None	None
Metals										
Arsenic	M	mg/kg	0.5		0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	M	mg/kg	0.2		< 0.2	0.4	0.6	0.3	< 0.2	< 0.2
Chromium	M	mg/kg	1		6.2	4.6	2.8	5.2	7.9	1.0
Copper	M	mg/kg	4		9.5	37.7	24.5	15.3	18.5	17.8
Lead	M	mg/kg	1		9.0	25.3	28.4	18.0	20.5	20.2
Mercury	M	mg/kg	0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Nickel	M	mg/kg	1		15.7	8.4	6.8	8.1	5.1	6.0
Selenium	M	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	4.5		30.1	76.4	66.8	48.6	42.5	39.4
Inorganics										
Hexavalent Chromium	N	mg/kg	0.8		< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous										
pH	M	pH units	0.1		9.1	7.8	7.8	7.3	6.6	5.8
Total Organic Carbon	N	%	0.01		0.09	0.64	0.51	0.30	0.31	0.28
Polyaromatic hydrocarbons										
Naphthalene	SM	mg/kg	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthylene	SM	mg/kg	0.02		< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02
Acenaphthene	SM	mg/kg	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluorene	S	mg/kg	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	SM	mg/kg	0.02		< 0.02	0.02	0.08	< 0.02	< 0.02	< 0.02
Anthracene	S	mg/kg	0.02		< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02
Fluoranthene	SM	mg/kg	0.02		< 0.02	0.07	0.19	< 0.02	< 0.02	0.02
Pyrene	SM	mg/kg	0.02		< 0.02	0.07	0.17	< 0.02	< 0.02	< 0.02
Benzo(a)anthracene	S	mg/kg	0.02		< 0.02	0.05	0.10	< 0.02	< 0.02	< 0.02
Chrysene	SM	mg/kg	0.02		< 0.03	0.06	0.13	< 0.03	< 0.03	< 0.03
Benzo(b)fluoranthene	SM	mg/kg	0.02		< 0.02	0.08	0.14	< 0.02	< 0.02	< 0.02
Benzo(k)fluoranthene	SM	mg/kg	0.03		< 0.03	0.03	0.06	< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	S	mg/kg	0.02		< 0.02	0.07	0.12	< 0.02	< 0.02	< 0.02
Indeno(1,2,3-cd)pyrene	SM	mg/kg	0.02		< 0.02	0.06	0.10	< 0.02	< 0.02	< 0.02
Dibenzo(a,h)anthracene	SM	mg/kg	0.02		< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02
Benzo[g,h,i]perylene	SM	mg/kg	0.02		< 0.02	0.07	0.09	< 0.02	< 0.02	< 0.02
Total PAH(16)	NS	mg/kg	0.34		< 0.34	0.57	1.24	< 0.34	< 0.34	< 0.34

Results Summary

Report No.: 24-53591, issue number 1

				ELAB Reference	359940	359941	359942	359943	359944	359945
				Customer Reference						
				Sample ID						
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	WS303	WS304	WS305	WS306	WS307	WS308
				Sample Depth (m)	0.30	0.20	0.20	0.30	0.10	0.30
				Sampling Date	24/04/2024	24/04/2024	24/04/2024	24/04/2024	25/04/2024	25/04/2024
Determinand	**Codes**	**Units**	**LOD**							
OrganoChlorine Pesticides										
alpha-HCH	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
beta_HCH	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
gamma-HCH	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
Aldrin	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
p,p-DDE	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
Dieldrin	N	ug/kg	10	n/t	78	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
p,p-DDD	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
p,p-DDT	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
Endosulphan sulphate	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t	n/t
OrganoPhosphorus Pesticides										
Acephate	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Aziniphos-methyl	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Chlorpyrifos	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Demeton-s-methyl	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Dichlorvos	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Dimethoate	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Ethion	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Malathion	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Mathidathion	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Methamidophos	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Omethoate	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Pirimifos-methyl	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Profenofos	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Pyrazophos	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Tokuthion	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Tolclofos-methyl	N	ug/kg	100	n/t	< 100	n/t	n/t	n/t	n/t
Triazines										
Ametryn	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t
Atrazine	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t
Atraton	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t
Prometon	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t
Prometryn	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t
Propazine	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t
Secbumeton	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t
Simazine	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t
Simetryn	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t
Terbuthylazine	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t
Terbutryn	N	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t	n/t

Results Summary

Report No.: 24-53591, issue number 1

			ELAB Reference	359946	359948	359949	359950	359952	359953
			Customer Reference						
			Sample ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS309	WS311	WS312	WS313	WS315	WS316
			Sample Depth (m)	0.30	0.10	0.20	0.10	0.50	0.10
			Sampling Date	25/04/2024	22/04/2024	22/04/2024	22/04/2024	23/04/2024	23/04/2024
Determinand	**Codes**	**Units**	**LOD**						
Soil sample preparation parameters									
Moisture Content	N	%	0.1	10.3	10.2	10.4	8.5	13.0	4.8
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None	None	None
Metals									
Arsenic	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	M	mg/kg	0.2	< 0.2	0.2	0.3	0.3	< 0.2	0.2
Chromium	M	mg/kg	1	2.5	2.1	2.1	< 1.0	2.0	10.0
Copper	M	mg/kg	4	29.1	27.1	23.4	18.0	9.9	17.8
Lead	M	mg/kg	1	24.5	19.3	23.7	26.7	10.1	27.5
Mercury	M	mg/kg	0.1	0.2	< 0.1	0.1	0.1	< 0.1	< 0.1
Nickel	M	mg/kg	1	5.3	6.3	6.9	5.4	13.6	13.2
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	4.5	40.0	45.7	57.1	61.4	31.5	51.0
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous									
pH	M	pH units	0.1	6.1	7.0	7.9	8.0	7.9	8.4
Total Organic Carbon	N	%	0.01	0.42	0.45	0.55	0.48	0.21	3.0
Polyaromatic hydrocarbons									
Naphthalene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthylene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02
Acenaphthene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluorene	S	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	SM	mg/kg	0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	0.14
Anthracene	S	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.08
Fluoranthene	SM	mg/kg	0.02	0.06	0.03	0.03	0.04	< 0.02	0.71
Pyrene	SM	mg/kg	0.02	0.05	0.03	0.03	0.04	< 0.02	0.77
Benzo(a)anthracene	S	mg/kg	0.02	0.04	< 0.02	< 0.02	0.02	< 0.02	0.43
Chrysene	SM	mg/kg	0.02	0.03	< 0.03	< 0.03	0.03	< 0.03	0.65
Benzo(b)fluoranthene	SM	mg/kg	0.02	0.05	0.03	< 0.02	0.07	< 0.02	1.14
Benzo(k)fluoranthene	SM	mg/kg	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.38
Benzo(a)pyrene	S	mg/kg	0.02	0.04	< 0.02	< 0.02	0.06	< 0.02	1.11
Indeno(1,2,3-cd)pyrene	SM	mg/kg	0.02	0.03	< 0.02	< 0.02	0.07	< 0.02	1.34
Dibenzo(a,h)anthracene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.25
Benzo[g,h,i]perylene	SM	mg/kg	0.02	0.03	< 0.02	< 0.02	0.06	< 0.02	1.58
Total PAH(16)	NS	mg/kg	0.34	0.37	< 0.34	< 0.34	0.40	< 0.34	8.58

Results Summary

Report No.: 24-53591, issue number 1

			ELAB Reference	359946	359948	359949	359950	359952	359953
			Customer Reference						
			Sample ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS309	WS311	WS312	WS313	WS315	WS316
			Sample Depth (m)	0.30	0.10	0.20	0.10	0.50	0.10
			Sampling Date	25/04/2024	22/04/2024	22/04/2024	22/04/2024	23/04/2024	23/04/2024
Determinand	**Codes**	**Units**	**LOD**						
OrganoChlorine Pesticides									
alpha-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
beta_HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
gamma-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Aldrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Dieldrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDD	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDT	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
OrganoPhosphorus Pesticides									
Acephate	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Aziniphos-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Chlorpyrifos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Demeton-s-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Dichlorvos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Dimethoate	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Ethion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Malathion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Mathidathion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Methamidophos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Omethoate	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Pirimifos-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Profenofos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Pyrazophos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Tokuthion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Tolclofos-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Triazines									
Ametryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Atrazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Atraton	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Prometon	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Prometryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Propazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Secbumeton	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Simazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Simetryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Terbuthylazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Terbutryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 24-53591, issue number 1

			ELAB Reference	359955	359957	359958	359959	359960	359962
			Customer Reference						
			Sample ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS318	WS320	WS321	WS322	WS323	HA301
			Sample Depth (m)	0.20	0.10	0.20	0.10	0.10	0.20
			Sampling Date	23/04/2024	23/04/2024	23/04/2024	23/04/2024	22/04/2024	24/04/2024
Determinand	**Codes**	**Units**	**LOD**						
Soil sample preparation parameters									
Moisture Content	N	%	0.1	10.8	13.1	7.4	9.2	8.3	12.4
Material removed	N	%	0.1	< 0.1	23.5	20.5	< 0.1	17.8	25.2
Description of Inert material removed	N		0	None	Stones	Stones	None	Stones	Stones
Metals									
Arsenic	M	mg/kg	0.5	4.3	< 0.5	11.0	16.7	< 0.5	4.5
Cadmium	M	mg/kg	0.2	0.2	< 0.2	0.4	1.8	0.3	0.2
Chromium	M	mg/kg	1	9.9	< 1.0	17.5	8.7	10.4	7.3
Copper	M	mg/kg	4	25.2	8.3	58.5	28.2	14.2	22.9
Lead	M	mg/kg	1	23.1	12.7	45.9	72.3	24.6	276
Mercury	M	mg/kg	0.1	0.2	< 0.1	0.7	0.2	0.1	0.6
Nickel	M	mg/kg	1	16.7	4.5	28.8	16.3	10.9	12.3
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	4.5	52.0	31.7	77.2	231	63.0	87.4
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous									
pH	M	pH units	0.1	9.8	6.9	8.4	9.9	9.0	9.7
Total Organic Carbon	N	%	0.01	0.45	0.46	1.2	0.32	1.4	0.25
Polyaromatic hydrocarbons									
Naphthalene	SM	mg/kg	0.02	< 0.02	< 0.02	0.08	< 0.02	< 0.02	0.03
Acenaphthylene	SM	mg/kg	0.02	< 0.02	< 0.02	0.15	< 0.02	< 0.02	< 0.02
Acenaphthene	SM	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluorene	S	mg/kg	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	SM	mg/kg	0.02	0.03	< 0.02	0.20	< 0.02	0.10	0.31
Anthracene	S	mg/kg	0.02	0.03	< 0.02	0.15	< 0.02	0.05	0.07
Fluoranthene	SM	mg/kg	0.02	0.09	0.03	0.67	0.09	0.42	0.58
Pyrene	SM	mg/kg	0.02	0.09	0.02	0.71	0.09	0.43	0.48
Benzo(a)anthracene	S	mg/kg	0.02	0.06	< 0.02	0.69	0.06	0.29	0.30
Chrysene	SM	mg/kg	0.02	0.08	< 0.03	0.85	0.07	0.29	0.36
Benzo(b)fluoranthene	SM	mg/kg	0.02	0.12	< 0.02	1.23	0.09	0.88	0.39
Benzo(k)fluoranthene	SM	mg/kg	0.03	0.04	< 0.03	0.47	0.04	0.28	0.16
Benzo(a)pyrene	S	mg/kg	0.02	0.08	< 0.02	0.89	0.08	0.77	0.29
Indeno(1,2,3-cd)pyrene	SM	mg/kg	0.02	0.09	< 0.02	0.86	0.08	1.00	0.24
Dibenzo(a,h)anthracene	SM	mg/kg	0.02	< 0.02	< 0.02	0.21	< 0.02	0.19	0.06
Benzo[g,h,i]perylene	SM	mg/kg	0.02	0.08	< 0.02	0.77	0.07	1.22	0.22
Total PAH(16)	NS	mg/kg	0.34	0.78	< 0.34	7.92	0.66	5.90	3.48

Results Summary

Report No.: 24-53591, issue number 1

			ELAB Reference	359955	359957	359958	359959	359960	359962
			Customer Reference						
			Sample ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	WS318	WS320	WS321	WS322	WS323	HA301
			Sample Depth (m)	0.20	0.10	0.20	0.10	0.10	0.20
			Sampling Date	23/04/2024	23/04/2024	23/04/2024	23/04/2024	22/04/2024	24/04/2024
Determinand	**Codes**	**Units**	**LOD**						
OrganoChlorine Pesticides									
alpha-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
beta_HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
gamma-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Aldrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Dieldrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDD	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
p,p-DDT	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
OrganoPhosphorus Pesticides									
Acephate	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Aziniphos-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Chlorpyrifos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Demeton-s-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Dichlorvos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Dimethoate	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Ethion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Malathion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Mathidathion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Methamidophos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Omethoate	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Pirimifos-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Profenofos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Pyrazophos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Tokuthion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Tolclofos-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	n/t
Triazines									
Ametryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Atrazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Atraton	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Prometon	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Prometryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Propazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Secbumeton	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Simazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Simetryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Terbuthylazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Terbutryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 24-53591, issue number 1

				ELAB Reference	359963	359964	359966	359967	359968	359969
				Customer Reference						
				Sample ID						
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	HA302	HA303	HA305	HA309	HA311	HA315
				Sample Depth (m)	0.20	0.25	0.30	0.10	0.10	0.10
				Sampling Date	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024
Determinand	**Codes**	**Units**	**LOD**							
Soil sample preparation parameters										
Moisture Content	N	%	0.1		9.5	8.9	7.5	9.7	5.4	9.2
Material removed	N	%	0.1		24.0	20.7	< 0.1	10.3	< 0.1	< 0.1
Description of Inert material removed	N		0		Stones	Stones	None	Stones	None	None
Metals										
Arsenic	M	mg/kg	0.5		25.6	10.5	< 0.5	< 0.5	36.1	4.3
Cadmium	M	mg/kg	0.2		0.2	0.5	0.3	< 0.2	1.1	0.6
Chromium	M	mg/kg	1		16.1	15.6	5.4	2.9	8.7	1.8
Copper	M	mg/kg	4		29.7	88.5	30.7	14.2	17.5	18.8
Lead	M	mg/kg	1		52.8	90.9	24.8	16.8	158	51.6
Mercury	M	mg/kg	0.1		< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.1
Nickel	M	mg/kg	1		16.6	13.9	7.2	5.2	23.6	12.5
Selenium	M	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	4.5		106	125	190	39.3	285	135
Inorganics										
Hexavalent Chromium	N	mg/kg	0.8		< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous										
pH	M	pH units	0.1		10.4	9.2	8.3	7.7	8.6	8.1
Total Organic Carbon	N	%	0.01		0.20	3.0	0.33	0.32	1.4	0.60
Polyaromatic hydrocarbons										
Naphthalene	SM	mg/kg	0.02		< 0.02	10.6	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthylene	SM	mg/kg	0.02		< 0.02	1.23	< 0.02	< 0.02	< 0.02	< 0.02
Acenaphthene	SM	mg/kg	0.02		< 0.02	6.70	< 0.02	< 0.02	< 0.02	< 0.02
Fluorene	S	mg/kg	0.02		< 0.02	6.20	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	SM	mg/kg	0.02		0.03	86.2	0.05	< 0.02	0.03	< 0.02
Anthracene	S	mg/kg	0.02		< 0.02	27.5	0.03	< 0.02	< 0.02	< 0.02
Fluoranthene	SM	mg/kg	0.02		0.11	101	0.10	0.03	0.08	0.04
Pyrene	SM	mg/kg	0.02		0.09	83.9	0.08	0.02	0.06	0.03
Benzo(a)anthracene	S	mg/kg	0.02		0.06	44.8	0.06	< 0.02	0.05	< 0.02
Chrysene	SM	mg/kg	0.02		0.07	42.8	0.07	< 0.03	0.06	< 0.03
Benzo(b)fluoranthene	SM	mg/kg	0.02		0.08	45.7	0.09	0.03	0.07	0.03
Benzo(k)fluoranthene	SM	mg/kg	0.03		0.04	18.5	0.04	< 0.03	0.03	< 0.03
Benzo(a)pyrene	S	mg/kg	0.02		0.07	39.7	0.09	0.02	0.06	0.03
Indeno(1,2,3-cd)pyrene	SM	mg/kg	0.02		0.06	29.3	0.09	0.03	0.07	0.03
Dibenzo(a,h)anthracene	SM	mg/kg	0.02		< 0.02	7.29	0.02	< 0.02	< 0.02	< 0.02
Benzo[g,h,i]perylene	SM	mg/kg	0.02		0.05	24.4	0.07	0.02	0.08	0.02
Total PAH(16)	NS	mg/kg	0.34		0.67	576	0.79	< 0.34	0.59	< 0.34

Results Summary

Report No.: 24-53591, issue number 1

			ELAB Reference	359963	359964	359966	359967	359968	359969
			Customer Reference						
			Sample ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	HA302	HA303	HA305	HA309	HA311	HA315
			Sample Depth (m)	0.20	0.25	0.30	0.10	0.10	0.10
			Sampling Date	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024	24/04/2024
Determinand	**Codes**	**Units**	**LOD**						
OrganoChlorine Pesticides									
alpha-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
beta_HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
gamma-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
Aldrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
p,p-DDE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	320
Dieldrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	300
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
p,p-DDD	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	39
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
p,p-DDT	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	36
Endosulphan sulphate	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	< 10
OrganoPhosphorus Pesticides									
Acephate	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Aziniphos-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Chlorpyrifos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Demeton-s-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Dichlorvos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Dimethoate	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Ethion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Malathion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Mathidathion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Methamidophos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Omethoate	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Pirimifos-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Profenofos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Pyrazophos	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Tokuthion	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Tolclofos-methyl	N	ug/kg	100	n/t	n/t	n/t	n/t	n/t	< 100
Triazines									
Ametryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01
Atrazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01
Atraton	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01
Prometon	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01
Prometryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01
Propazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01
Secbumeton	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01
Simazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01
Simetryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01
Terbuthylazine	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01
Terbutryn	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	< 0.01

Results Summary

Report No.: 24-53591, issue number 1

			ELAB Reference	359970	359971
			Customer Reference		
			Sample ID		
			Sample Type	SOIL	SOIL
			Sample Location	HA329	HA308
			Sample Depth (m)	0.15	0.10
			Sampling Date	24/04/2024	24/04/2024
Determinand	**Codes**	**Units**	**LOD**		
Soil sample preparation parameters					
Moisture Content	N	%	0.1	9.0	4.4
Material removed	N	%	0.1	10.5	9.4
Description of Inert material removed	N		0	Stones	Stones
Metals					
Arsenic	M	mg/kg	0.5	0.8	11.4
Cadmium	M	mg/kg	0.2	0.2	2.2
Chromium	M	mg/kg	1	12.6	1.6
Copper	M	mg/kg	4	18.8	11.0
Lead	M	mg/kg	1	25.2	128
Mercury	M	mg/kg	0.1	0.2	0.1
Nickel	M	mg/kg	1	12.8	11.7
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	4.5	84.3	473
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	9.7	10.0
Total Organic Carbon	N	%	0.01	0.16	0.31
Polyaromatic hydrocarbons					
Naphthalene	SM	mg/kg	0.02	< 0.02	< 0.02
Acenaphthylene	SM	mg/kg	0.02	< 0.02	< 0.02
Acenaphthene	SM	mg/kg	0.02	< 0.02	< 0.02
Fluorene	S	mg/kg	0.02	< 0.02	< 0.02
Phenanthrene	SM	mg/kg	0.02	< 0.02	< 0.02
Anthracene	S	mg/kg	0.02	< 0.02	< 0.02
Fluoranthene	SM	mg/kg	0.02	0.03	0.04
Pyrene	SM	mg/kg	0.02	0.02	0.03
Benzo(a)anthracene	S	mg/kg	0.02	< 0.02	0.03
Chrysene	SM	mg/kg	0.02	< 0.03	< 0.03
Benzo(b)fluoranthene	SM	mg/kg	0.02	0.03	0.04
Benzo(k)fluoranthene	SM	mg/kg	0.03	< 0.03	< 0.03
Benzo(a)pyrene	S	mg/kg	0.02	< 0.02	0.03
Indeno(1,2,3-cd)pyrene	SM	mg/kg	0.02	0.03	0.04
Dibenzo(a,h)anthracene	SM	mg/kg	0.02	< 0.02	< 0.02
Benzo[g,h,i]perylene	SM	mg/kg	0.02	0.03	0.03
Total PAH(16)	NS	mg/kg	0.34	< 0.34	< 0.34

Results Summary

Report No.: 24-53591, issue number 1

			ELAB Reference	359970	359971
			Customer Reference		
			Sample ID		
			Sample Type	SOIL	SOIL
			Sample Location	HA329	HA308
			Sample Depth (m)	0.15	0.10
			Sampling Date	24/04/2024	24/04/2024
Determinand	**Codes**	**Units**	**LOD**		
OrganoChlorine Pesticides					
alpha-HCH	N	ug/kg	10	n/t	< 10
beta_HCH	N	ug/kg	10	n/t	< 10
gamma-HCH	N	ug/kg	10	n/t	< 10
delta-HCH	N	ug/kg	10	n/t	< 10
Heptachlor	N	ug/kg	10	n/t	< 10
Aldrin	N	ug/kg	10	n/t	< 10
Heptachlor expoxide	N	ug/kg	10	n/t	< 10
trans-Chlordane	N	ug/kg	10	n/t	< 10
alpha cis-Chlordane	N	ug/kg	10	n/t	< 10
p,p-DDE	N	ug/kg	10	n/t	< 10
Dieldrin	N	ug/kg	10	n/t	< 10
Endrin	N	ug/kg	10	n/t	< 10
p,p-DDD	N	ug/kg	10	n/t	< 10
Endosulfan II	N	ug/kg	10	n/t	< 10
Endrin aldehyde	N	ug/kg	10	n/t	< 10
p,p-DDT	N	ug/kg	10	n/t	< 10
Endosulphan sulphate	N	ug/kg	10	n/t	< 10
Methoxychlor	N	ug/kg	10	n/t	< 10
Endrin ketone	N	ug/kg	10	n/t	< 10
OrganoPhosphorus Pesticides					
Acephate	N	ug/kg	100	n/t	< 100
Aziniphos-methyl	N	ug/kg	100	n/t	< 100
Chlorpyrifos	N	ug/kg	100	n/t	< 100
Demeton-s-methyl	N	ug/kg	100	n/t	< 100
Dichlorvos	N	ug/kg	100	n/t	< 100
Dimethoate	N	ug/kg	100	n/t	< 100
Ethion	N	ug/kg	100	n/t	< 100
Malathion	N	ug/kg	100	n/t	< 100
Mathidathion	N	ug/kg	100	n/t	< 100
Methamidophos	N	ug/kg	100	n/t	< 100
Omethoate	N	ug/kg	100	n/t	< 100
Pirimifos-methyl	N	ug/kg	100	n/t	< 100
Profenofos	N	ug/kg	100	n/t	< 100
Pyrazophos	N	ug/kg	100	n/t	< 100
Tokuthion	N	ug/kg	100	n/t	< 100
Tolclofos-methyl	N	ug/kg	100	n/t	< 100
Triazines					
Ametryn	N	mg/kg	0.01	n/t	< 0.01
Atrazine	N	mg/kg	0.01	n/t	< 0.01
Atraton	N	mg/kg	0.01	n/t	< 0.01
Prometon	N	mg/kg	0.01	n/t	< 0.01
Prometryn	N	mg/kg	0.01	n/t	< 0.01
Propazine	N	mg/kg	0.01	n/t	< 0.01
Secbumeton	N	mg/kg	0.01	n/t	< 0.01
Simazine	N	mg/kg	0.01	n/t	< 0.01
Simetryn	N	mg/kg	0.01	n/t	< 0.01
Terbuthylazine	N	mg/kg	0.01	n/t	< 0.01
Terbutryn	N	mg/kg	0.01	n/t	< 0.01

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Results Summary

Report No.: 24-53591, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

In accordance with procedures, a 1kg soil sample should be analysed. For amounts less than this caution should be used when analysing the data as sample size is smaller than the recommended amount, therefore samples could be deemed as not being representative of the materials present on site.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)	F/mm2 (I)
359921	0.10	HA316	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359922	0.30	HA324	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359923	0.35	HA325	Brown Sandy Soil	No asbestos	n/t	n/t	n/t	n/t	n/t
359924	0.20	HA317	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359925	0.10	HA328	Brown Sandy Soil	No asbestos	n/t	n/t	n/t	n/t	n/t
359926	0.10	HA327	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359927	0.15	HA326	Brown Sandy Soil, Stones, Concrete	No asbestos detected	n/t	n/t	n/t	n/t	n/t
359929	0.15	HA323	Brown Sandy Soil	No asbestos	n/t	n/t	n/t	n/t	n/t
359930	0.40	HA321	Brown Sandy Soil	No asbestos	n/t	n/t	n/t	n/t	n/t
359931	0.10	HA320	Brown Sandy Soil, Organic	No asbestos	n/t	n/t	n/t	n/t	n/t
359932	0.05	HA319	Brown Sandy Soil, Stones, Nail, Wood	No asbestos detected	n/t	n/t	n/t	n/t	n/t
359933	0.15	HA312	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359934	0.10	HA313	Brown Sandy Soil, Stones, Brick	No asbestos	n/t	n/t	n/t	n/t	n/t
359935	0.10	HA310	Brown Sandy Soil	No asbestos	n/t	n/t	n/t	n/t	n/t
359936	0.05	HA307	Brown Sandy Soil	No asbestos	n/t	n/t	n/t	n/t	n/t
359937	0.10	HA314	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359938	0.20	WS301	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359939	0.50	WS302	Brown Sandy Soil	No asbestos	n/t	n/t	n/t	n/t	n/t

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Results Summary

Report No.: 24-53591, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

In accordance with procedures, a 1kg soil sample should be analysed. For amounts less than this caution should be used when analysing the data as sample size is smaller than the recommended amount, therefore samples could be deemed as not being representative of the materials present on site.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)	F/mm2 (I)
359940	0.30	WS303	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359941	0.20	WS304	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359942	0.20	WS305	Brown Sandy Soil, Stones, Concrete	No asbestos detected	n/t	n/t	n/t	n/t	n/t
359943	0.30	WS306	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359944	0.10	WS307	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359945	0.30	WS308	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359946	0.30	WS309	Brown Sandy Soil, Brick	No asbestos	n/t	n/t	n/t	n/t	n/t
359948	0.10	WS311	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359949	0.20	WS312	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359950	0.10	WS313	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359952	0.50	WS315	Brown Sandy Soil, Stones	No asbestos	n/t	n/t	n/t	n/t	n/t
359953	0.10	WS316	Brown Sandy Soil, Stones, Tar	No asbestos	n/t	n/t	n/t	n/t	n/t
359955	0.20	WS318	Brown Sandy Soil, Stones, Brick	No asbestos	n/t	n/t	n/t	n/t	n/t
359957	0.10	WS320	Brown Sandy Soil	No asbestos	n/t	n/t	n/t	n/t	n/t
359958	0.20	WS321	Brown Sandy Soil, Stones, Brick	No asbestos	n/t	n/t	n/t	n/t	n/t
359959	0.10	WS322	Brown Soil, Stones, Clinker, Brick, Paper	No asbestos detected	n/t	n/t	n/t	n/t	n/t
359960	0.10	WS323	Brown Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t	n/t

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Results Summary

Report No.: 24-53591, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

In accordance with procedures, a 1kg soil sample should be analysed. For amounts less than this caution should be used when analysing the data as sample size is smaller than the recommended amount, therefore samples could be deemed as not being representative of the materials present on site.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)	F/mm2 (I)
359962	0.20	HA301	Light Brown Soil, Stones, Clinker, Brick	No asbestos detected	n/t	n/t	n/t	n/t	n/t
359963	0.20	HA302	Light Brown Soil, Stones, Clinker, Chalk, Concrete, Brick	No asbestos detected	n/t	n/t	n/t	n/t	n/t
359964	0.25	HA303	Brown Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t	n/t
359965	0.30	HA303	Black Rubber Fragments	No asbestos	n/t	n/t	n/t	n/t	n/t
359966	0.30	HA305	Brown Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t	n/t
359967	0.10	HA309	Brown Soil, Stones, Clinker	No asbestos	n/t	n/t	n/t	n/t	n/t
359968	0.10	HA311	Brown Soil, Stones, Clinker, Brick, Organics	No asbestos detected	n/t	n/t	n/t	n/t	n/t
359969	0.10	HA315	Brown Soil, Stones, Brick	No asbestos	n/t	n/t	n/t	n/t	n/t
359970	0.15	HA329	Brown Soil, Stones, Clinker, Rusted Metal	No asbestos detected	n/t	n/t	n/t	n/t	n/t
359971	0.10	HA308	Brown Soil, Stones, Clinker, Brick, Organics	No asbestos detected	n/t	n/t	n/t	n/t	n/t

Method Summary

Report No.: 24-53591, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Pesticide SVOC in solids	N	As submitted sample	01/05/2024		GC-MS
Hexavalent chromium	N	As submitted sample	02/05/2024	110	Colorimetry
pH	M	Air dried sample	02/05/2024	113	Electromeric
Organochlorine Pesticides in solids	N	As submitted sample	02/05/2024	173	GC-MS
Organophosphorus Pesticides in solids	N	As submitted sample	02/05/2024	173	GC-MS
Total organic carbon/Total sulphur	N	Air dried sample	03/05/2024	210	IR
Asbestos identification	U	Air dried sample	08/05/2024	281	Microscopy
Aqua regia extractable metals	M	Air dried sample	02/05/2024	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 24-53591, issue number 1

Key	
U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request
	Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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

End of Report

Certificate of Analysis

Report No.:	**24-03161-1**
Issue No.:	**1**
Date of Issue	**14/05/2024**
Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Aneta Dybek-Echtermeyer
Customer Order No.:	P0754076
Customer Reference:	Not Supplied
Quotation Reference:	Q24-02085 (Issue: 5)
Description:	2 geo samples
Date Received:	03/05/2024
Date Started:	03/05/2024
Date Completed:	13/05/2024
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **David Long, LIMS Manager**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

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Results Summary

Report No.: 24-03161-1

Customer Reference: Not Supplied

Customer Order No: P0754076

	Customer Sample No	24/04349/1 SPW1	24/04349/10 SPW10
	RPS Sample No	53398	53399
	Sample Type	**GEO**	**GEO**
	Sample Matrix	SOIL	SOIL
	Sampling Date	22/04/2024	25/04/2024

Determinand	CAS No	Codes	SOP	RL	Units		
atrazine	1912-24-9	N	L224	0.02	mg/kg DW	< 0.02	< 0.02
cyanazine	21725-46-2	N	L224	0.02	mg/kg DW	< 0.02	< 0.02
prometryn	7287-19-6	N	L224	0.02	mg/kg DW	< 0.02	< 0.02
propazine	139-40-2	N	L224	0.02	mg/kg DW	< 0.02	< 0.02
simazine	122-34-9	N	L224	0.02	mg/kg DW	< 0.02	< 0.02
terbuthylazine	5915-41-3	N	L224	0.02	mg/kg DW	< 0.02	< 0.02
terbutryn	886-50-0	N	L224	0.02	mg/kg DW	< 0.02	< 0.02
trietazine	1912-26-1	N	L224	0.02	mg/kg DW	< 0.02	< 0.02

Deviating Samples

Report No.: 24-03161-1

Customer Reference: Not Supplied

Customer Order No: P0754076

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
53398	24/04349/1 SPW1		22/04/2024	100 mL amber glass jar	No	
53399	24/04349/10 SPW10		25/04/2024	100 mL amber glass jar	No	

Report No.: 24-03161-1

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	MINEW	Mine Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Water

Report No.: 24-03161-1

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids / Soils	1 month from the issue date of this report
Sediments	1 month from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

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Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	24/04349		
Issue Number:	1	Date:	3-Jun-24
Client:	RSK Environment Ltd (Leap Burgess Hill) South Coast Regional Office, Premier House, Victoria Road Burgess Hill, West Sussex,, RH15 9LR		
Project Manager:	Alec Lloyd/Isaac Betts/Martin Weil/Peter Millis		
Project Name:	New Place Farm, Pulborough (LP3646)		
Project Ref:	3750605		
Order No:	N/A		
Date Samples Received:	1-May-24		
Date Instructions Received:	1-May-24		
Date Analysis Completed:	3-Jun-24		

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only



Gemma Berrisford
Deputy Client Services Supervisor

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

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	24/04349/4				
Client Sample Number						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				SPW4				
Depth to Top								
Depth to Bottom								
Date Sampled				22/04/2024				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.01**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.29**		-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.11**		-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N	**56.4**		-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**21.6**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N	**<0.08**		100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**109**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N	**<0.070**		1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**		6	-	-
Eluate Analysis				**10:1**	**10:1**	Limit values for compliance leaching test using		
				mg/l	**mg/kg**	BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.003	**0.030**	0.5	2	25
Barium	A-T-025	N	N	0.020	**0.200**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	0.014	**0.140**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.005	**0.050**	0.5	10	30
Nickel	A-T-025	N	N	0.004	**0.040**	0.4	10	40
Lead	A-T-025	N	N	0.002	**0.020**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.141	**1.410**	4	50	200
Chloride	A-T-026	N	N	16	**155**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	65	**650**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	182	**1820**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.02	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	57.90	**579**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.8				
Conductivity (µS/cm)	A-T-037	N	N	363				
Mass Sample (kg)				0.268				
Dry Matter (%)	A-T-044	N	N	65.2				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

APPENDIX I – APPROACH TO THE SELECTION OF GENERIC ASSESSMENT CRITERIA

Chronic Risks to Human Health

Defra and the EA have published a limited number of Soil Guideline Values (SGVs)[26] that represent minimal chronic risk to human health. CL:AIRE has published a limited number of Category Four Screening Levels (C4SLs)[27] which represent a low but still strongly precautionary level of chronic risk to human health. Both the SGVs and C4SLs have both been derived for a Soil Organic Matter (SOM) content of 6%, which is not always representative of the low SOM that are encountered within Made Ground on brownfield sites.

Land Quality Management Ltd. (LQM) responded to the demand for a more comprehensive set of screening values and for a wider range of SOM by producing Suitable for Use Levels (S4ULs)[28] which are a hybrid of SGVs and C4SLs. The S4ULs have been endorsed by the Chartered Institute of Environmental Health (CIEH).

A smaller set of 35 GACs was published by CL:AIRE in association with AGS and EIC in 2010. These were based on the exposure scenarios that were used to derive the SGVs. These exposure scenarios have since been superseded, in part, by the publication of the C4SLs and the S4ULs. A second phase of C4SLs is currently under development.

LEAP uses C4SLs where they are available as generic assessment criteria to quantitatively assess the potential chronic risks to human health. Where C4SLs are not available, the S4ULs or CL:AIRE GACs are used. It is noted that S4ULs are not equivalent to C4SLs in all their exposure assumptions but are generally more conservative. To ensure the greatest possible consistency in LEAP's human health GQRAs, the physicochemical and toxicological input parameters that were used to derive the CL:AIRE GACs have been re-modelled using the exposure parameters selected by LQM to derive the S4ULs.

For the organic compounds benzene and benzo(a)pyrene) for which C4SLs are available for a SOM of 6% only, LEAP has calculated equivalent C4SLs for 1% and 2.5% SOM. SOM does not affect the inorganic contaminants.

In accordance with current Public Health England (PHE) guidance[29], LEAP carries out the assessment of PAHs using a surrogate marker approach, whereby the assessment of risk

[26] Environment Agency Science Report SC050021 series.

[27] CL:AIRE Final Project Report. 'SP1010 – Development of Category 4 Screening Levels for assessment of land affected by contamination'. CL:AIRE, December 2013

[28] 'The LQM/CIEH S4ULs for Human Health Risk Assessment', Nathaniel P et al, 2015. Copyright Land Quality Management Ltd, reproduced with permission: Publication Number S4UL3509.

[29] HPA 'Contaminated Land Information Sheet. Risk Assessment Approaches for Polycyclic Aromatic Hydrocarbons (PAHs)'. Public Health England, 2017.

from benzo(a)pyrene also captures potential risks from other carcinogenic PAHs that may be present. The alternative S4ULs for PAHs using the Toxic Equivalent Factor (TEF) approach are not used because this approach is likely to under predict the true carcinogenicity of PAHs and is not advocated by PHE. The threshold PAHs have been assessed similarly, by using naphthalene as a marker compound due to its high volatility relative to other PAHs.

Total phenols are assessed by LEAP against the S4UL for phenol and total chromium is assessed against the S4UL for trivalent chromium.

LEAP does not consider the theoretical soil saturations in the evaluation of organic compounds and as such, some of the S4ULs for the less sensitive exposure scenarios are lower than their more sensitive equivalents.

Risks to human health from inhalation of vapours derived from groundwater are evaluated by LEAP using the SoBRA groundwater GAC_{gwvap}[30].

Acute Risks to Human Health

Cyanide has not been modelled using CLEA because it has high acute toxicity and CLEA is designed to evaluate chronic risks. Assuming an acute risk and based on a single dose of 3 g of soil, an assessment criterion of 33 $mgkg^{-1}$ free inorganic cyanide and 544 $mgkg^{-1}$ complex cyanide has been calculated by LEAP. At this stage LEAP has chosen to adopt a conservative screening value of 20 $mgkg^{-1}$ for total cyanide (essentially the sum of free and complex cyanides) to highlight any potential risks to human health.

Risks to Controlled Waters

RTM (2006)[31] requires receptor-specific Water Quality Standards (WQS) to be used to determine potentially unacceptable risks to water bodies in England and Wales. It requires appropriate criteria to be taken from a hierarchy of sources, where they are available as follows:

1. UK published values
2. EU published values
3. WHO published values

Drinking Water Resources

[30] Society of Brownfield Risk Assessment (SoBRA) 'Development of Generic Assessment Criteria for Assessing Vapour Risks to Human Health from Volatile Contaminants in Groundwater' Version 1.0. February 2017.

[31] EA 'Remedial Targets Methodology: Hydrogeological Risk Assessment for Land Contamination' 2006.

For groundwater and surface waters that are abstracted for potable supply LEAP uses:

- UK Drinking Water Quality Standards (DWS) from *The Water Supply (Water Quality) Regulations* 2016 (England)
- The Water Supply (Water Quality) Regulations 2010 (Wales) as amended in 2016
- World Health Organisation *Guidelines for Drinking Water Quality*, Fourth Edition, Volume 1, (2011).

Where the groundwater is not abstracted for potable supply, this is a precautionary approach which protects the potential future exploitation of the groundwater.

Surface Water (Ecological) Receptors

For surface waters as ecological receptors, LEAP uses the Environmental Quality Standards (EQS) from The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015. There are no appropriate EU or WHO standards available.

Petroleum Hydrocarbons

There are no current UK standards available for petroleum hydrocarbons, either for groundwater or surface water receptors, so an initial assessment criterion of 10µg/l, based on the former target concentration for dissolved or emulsified hydrocarbons, is used to represent a conservative preliminary screening value for total petroleum hydrocarbons.

Where considered appropriate, LEAP then follows the guidance of CL:AIRE 2017[32] for the further assessment of the petroleum hydrocarbon fractions and derivatives. For a drinking water resource, the WHO guidelines are used. For surface waters as ecological receptors, proxy compounds are used to select appropriate EQS based on recommended indicator compounds, as follows:

- aromatic EC5-EC7 – benzene
- aromatic >EC7-EC8 – toluene
- aromatic >EC8-EC10 – ethylbenzene
- aromatic >EC10-EC12 – naphthalene
- aromatic >EC12-EC16 – no proxy
- aromatic >EC16-EC21 – anthracene
- aromatic >EC21-EC35 – benzo(a)pyrene.

[32] CL:AIRE, 2017. 'Petroleum Hydrocarbons in Groundwater: Guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies'. CL:AIRE, London. ISBN 978-1-905046-31-7.