

Trial Pit Photographs

TP131



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP132



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP133



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP134A

Note: No
photographs
of TP134.



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP135



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP136



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP137



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP138



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP139



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP140



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP141



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

Trial Pit Photographs

TP142



Project Title: Forest Farm, Chippenham
Client: Gleeson Land
BRD Reference: BRD2483-OP6-A
Date Issued: November 2023



01295 272244
info@brduk.com

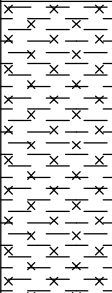
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS101	
						Sheet 1 of 2	

Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Grass over dark brown, sandy clay with frequent rootlets.	0.20 (54.48)		TS	 KELLAWAYS CLAY MEMBER
				Firm to stiff, orange brown mottled grey, slightly sandy, silty CLAY.				
0.60	J2							
				Stiff, light grey mottled orange brown, silty CLAY.	0.80 (53.88)			
1.00	D1				1.0			
1.20	SPT	8 N		1.20 m: SPT: 2,2/1,2,2,3				
1.50	D2							
1.70	PEN	2.5/2.25/2.0 kg/cm²		1.80 m: Calcareous concretions.	2.0			
2.00	SPT	11 N		Stiff, purplish brown, silty CLAY with fine to coarse selenite crystals. 2.00 m: SPT: 2,1/2,3,3,3	2.00 (52.68)			
2.40	D3							
2.80	PEN	3.0/3.25x2 kg/cm²		Stiff, bluish grey slightly mottled brown in places, silty CLAY with fine to coarse selenite crystals.	2.70 (51.98)			
3.00	SPT	11 N		Stiff, bluish grey, silty CLAY with fine selenite crystals. 3.00 m: SPT: 1,1/2,2,3,4	3.0 (51.68)			
3.20	D4							
3.80	PEN	3.25/4.25x2 kg/cm²		Stiff, dark grey, silty CLAY with abundant shell fragments and fine selenite crystals.	3.60 (51.08)			
4.00	SPT	17 N		4.00 m: SPT: 2,2/3,4,5,5	4.0			
					4.50			

General Remarks: Borehole terminated at 5.45m bgl. Hand dug to 1.20m for services clearance.	Surface Elevation Level: 54.678 mAOD	 Telephone: 01295 272244 Email: info@brduk.com
	All dimensions in metres Log Scale 1:25	

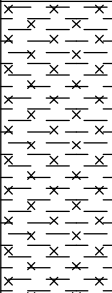
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS101		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	3.5/3.0/4.75 kg/cm ²		Continued from 3.60m: Stiff, dark grey, silty CLAY with abundant shell fragments and fine selenite crystals. 5.00 m: SPT: 2,3/4,4,5,5	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	18 N			5.45 (49.23)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl. Hand dug to 1.20m for services clearance.					Surface Elevation Level: 54.678 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS102		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Grass over dark brown, sandy clay with frequent rootlets. Stiff, orange brown mottled grey, silty CLAY.	0.20 (54.05)		TS	
0.80	PEN	2.0x3						
0.80	J2	kg/cm²						
1.00	SPT	11 N		1.00 m: SPT: 2,2/2,3,3,3	1.10 (53.15)			
1.20	D1			Stiff, grey mottled orange brown, silty CLAY with calcareous concretions. 1.40 - 1.50 m: Coarse sand sized selenite crystals.	1.50 (52.75)			
				Stiff, purplish brown mottled brown and grey, silty CLAY with fine to coarse selenite crystals.				
2.00	SPT	11 N		2.00 m: SPT: 1,1/2,3,3,3	2.0			
2.20	D2							
2.80	PEN	2.0/2.5/3.0		Stiff, closely fissured, dark grey, silty CLAY with abundant shell fragments.	2.70 (51.55)			
2.90	D3	kg/cm²						
3.00	SPT	21 N		3.00 m: SPT: 2,3/4,5,5,7	3.0			
3.80	PEN	4.25/4.5x2					KELLAWAYS CLAY MEMBER	
4.00	SPT	17 N		4.00 m: SPT: 2,2/3,4,5,5	4.0			
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 54.25 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

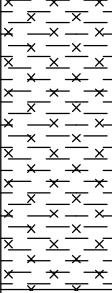
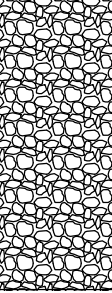
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS102		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.50	D4			Continued from 2.70m: Stiff, closely fissured, dark grey, silty CLAY with abundant shell fragments. 5.00 m: SPT: 4,4/6,6,6,7			KELLAWAYS CLAY MEMBER	
4.80	PEN 5.0	4.75/4.25 kg/cm²			5.0			
5.00	SPT	25 N			5.45 (48.80)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 54.25 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS103		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Grass over dark brown, sandy clay with frequent rootlets and occasional ferruginous gravel. Stiff, orange brown mottled grey, silty CLAY.	0.20 (54.23)		TS	
0.70	J2							
0.80	PEN	2.0/2.5x2 kg/cm²						
1.00	SPT	6 N		Stiff, grey mottled orange brown, silty CLAY with natural black wood fragments. 1.00 m: SPT: 1,1/1,1,2,2	0.90 (53.53)		KELLAWAYS CLAY MEMBER	
1.30	D1							
1.80	D2							
1.90	PEN	1.75/1.5x2 kg/cm²		Stiff, grey mottled brown, silty CLAY with abundant sand sized selenite crystals.	1.60 (52.83)			
2.00	SPT	7 N						
				Stiff, purplish brown occasionally mottled orange brown, silty CLAY with abundant sand sized selenite crystals. 2.00 m: SPT: 1,1/1,2,1,3	2.00 (52.43)			
2.50	D3							
2.80	PEN	3.0/4.0x2 kg/cm²						
3.00	SPT	11 N		3.00 m: SPT: 1,2/2,3,2,4	3.0			
				Very stiff, closely fissured, dark grey, silty CLAY with abundant shell fragments.	3.30 (51.13)			
3.80	PEN	3.5/4.5/4.0 kg/cm²						
4.00	SPT	24 N		4.00 m: SPT: 3,5/5,5,6,8	4.0			
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 54.429 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

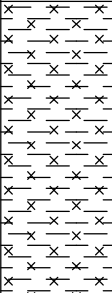
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS103		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	4.5/>5.0x2 kg/cm ²		Continued from 3.30m: Very stiff, closely fissured, dark grey, silty CLAY with abundant shell fragments. 5.00 m: SPT: 5,5/6,7,99	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	31 N			5.45 (48.98)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 54.429 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS104		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Grass over dark brown, sandy clay with frequent rootlets.	0.20 (53.95)		TS	
0.50	J2			Stiff, orange brown mottled grey, silty CLAY with occasional relict rootlets.				
0.80	PEN	1.5x3 kg/cm²						
1.00	SPT	7 N			1.0			
1.10	D1			Stiff, grey brown mottled orange brown, silty CLAY. 1.00 m: SPT: 1,1/1,2,2,2	1.00 (53.15)			
1.70	D2							
1.80	PEN	2.5/2.75x2 kg/cm²						
2.00	SPT	8 N		Stiff, closely fissured, greyish brown with some yellow brown on surfaces, silty CLAY with occasional relict rootlets and abundant sand sized selenite crystals at fissures and relict rootlets. 1.90 m: Fine to coarse selenite crystals below. 2.00 m: SPT: 1,2/2,2,2,2	1.50 (52.65)			
2.60	D3							
2.80	PEN	2.5/2.0x2 kg/cm²						
3.00	SPT	13 N		3.00 m: SPT: 2,3/3,3,3,4	3.0			
3.50	D4							
3.80	PEN	3.0/2.75x2 kg/cm²						
4.00	SPT	11 N		4.00 m: SPT: 1,1/2,3,3,3 4.00 m: Fine selenite crystals.	4.0			
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 54.146 mAOD			
					All dimensions in metres Log Scale 1:25			
					Telephone: 01295 272244 Email: info@brduk.com			

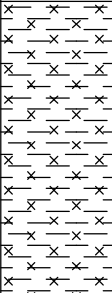
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS104		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	2.5/4.5/4.0 kg/cm ²		Continued from 2.50m: Stiff, closely fissured, dark grey, silty CLAY with abundant fine to coarse selenite crystals and occasional shell fragments. 5.00 m: SPT: 2,2/4,4,5,4	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	17 N			5.45 (48.70)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 54.146 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS105		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			MADE GROUND TOPSOIL: Grass over dark brown, sandy clay with occasional ceramic fragments.	0.20 (55.85)		MADE GROUND	
0.30	J2			MADE GROUND: Stiff, orange brown mottled brown, slightly gravelly, slightly sandy CLAY. Gravel of fine to medium, subangular to subrounded brick fragments, charcoal and quartzite.	0.50 (55.55)			
				MADE GROUND: Stiff, brown mottled orange brown in places, slightly gravelly, slightly sandy clay with occasional rootlets. Gravel of fine to medium, subrounded quartzite and fine to coarse, subangular ironstone.	1.00 (55.05)			
1.00	SPT	4 N		MADE GROUND: Stiff, brown mottled orange brown and red brown, gravelly, silty clay. Gravel of fine to coarse, subangular to subrounded brick fragments, sandstone, chalk and charcoal. 1.00 m: SPT: 1,1/1,1,1,1				
1.90	D1			MADE GROUND: Soft to firm, grey to black, slightly sandy, silty clay with occasional shell fragments, decaying wood and a natural organic odour.	1.80 (54.25)		MADE GROUND	
2.00	SPT	5 N		2.00 m: SPT: 1,1/1,1,1,2	2.00			
2.20	J3				2.40 (53.65)			
2.80	PEN	3.0x3 kg/cm²		Stiff, greyish brown mottled orange brown, silty CLAY with fine to coarse selenite crystals.	2.60 (53.45)		KELLAWAYS CLAY MEMBER	
2.90	D2			Stiff, grey, silty CLAY with occasional fine to coarse selenite crystals and shell fragments.	3.00			
3.00	SPT	10 N		3.00 m: SPT: 1,2/2,2,3,3				
					4.00			
3.80	PEN	3.0x3 kg/cm²					KELLAWAYS CLAY MEMBER	
4.00	SPT	17 N		4.00 m: SPT: 2,3/3,4,4,6	4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 56.046 mAOD			
					All dimensions in metres Log Scale 1:25		Telephone: 01295 272244 Email: info@brduk.com	

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS105		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	3.0/4.0/3.5 kg/cm ²		Continued from 2.60m: Stiff, grey, silty CLAY with occasional fine to coarse selenite crystals and shell fragments. 5.00 m: SPT: 3,4/5,5,6,6	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	22 N			5.45 (50.60)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 56.046 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS106		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.20	J1			TOPSOIL: Grass over dark brown, sandy clay with frequent rootlets.	0.30 (62.67)		TS	
0.70	J2			Firm to stiff, orange brown mottled grey, silty CLAY with occasional rootlets.				
0.80	PEN	2.25/3.0x2 kg/cm²						
1.00	SPT	11 N		Stiff, grey brown mottled orange brown, sandy, silty CLAY with relict rootlets. 1.00 m: SPT: 2,2/2,3,3,3	0.90 (62.07)			
1.30	D1							
1.80	PEN	2.75/3.0x2 kg/cm²						
2.00	SPT	15 N		Stiff, greyish brown mottled orange brown, sandy, silty CLAY with yellow silt-sized sulphide deposits. 2.00 m: SPT: 2,2/4,3,4,4	2.00 (60.97)			
2.30	D2							
2.80	PEN	1.75/1.25x2 kg/cm²		Stiff, dark grey mottled brown, sandy, silty CLAY.	2.60 (60.37)			
3.00	SPT	12 N		Stiff, closely fissured, dark grey, sandy, silty CLAY with fine selenite crystals and occasional shell fragments. 3.00 m: SPT: 1,2/3,3,3,3	2.90 (60.07)			
3.30	D3							
3.80	PEN	4.5/3.75/4.0 kg/cm²						
4.00	SPT	16 N		Stiff, closely fissured, dark grey, silty CLAY with occasional shell fragments. 4.00 m: SPT: 1,2/3,4,4,5	4.00 (58.97)			
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 62.968 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 16/10/2023 Date Completed: 16/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS106		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	3.75/4.25/3.5 kg/cm ²		Continued from 4.00m: Stiff, closely fissured, dark grey, silty CLAY with occasional shell fragments. 4.50 m: Pyritized ammonite fragment. 5.00 m: SPT: 2,2/3,4,4,4	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	15 N			5.45 (57.52)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 62.968 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 17/10/2023 Date Completed: 17/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS107	
						Sheet 1 of 2	

Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Grass over dark brown, sandy clay with frequent rootlets.	0.20 (57.54)		TS	
				Stiff, brown, sandy CLAY with frequent rootlets.	0.30 (57.44)			
				Stiff, orange brown mottled brown, slightly sandy, silty CLAY with occasional rootlets.				
0.50	J2			Stiff, light grey mottled orange brown, slightly sandy, silty CLAY.	0.60 (57.14)			
0.80	PEN	4.75/5.0x2 kg/cm²						
1.00	SPT	17 N		Stiff, orange brown mottled grey, slightly sandy, silty CLAY with occasional fine selenite crystals. 1.00 m: SPT: 2,2/4,4,4,5	1.00 (56.74)			
1.50	D1							
1.80	PEN	5.0x3 kg/cm²		Stiff, grey mottled orange brown and yellow, silty CLAY.	1.70 (56.04)			
2.00	SPT	32 N		2.00 m: SPT: 3,4/7,7,9,9	2.0			
				Stiff, brown mottled grey and orange brown, sandy, silty CLAY with abundant fine to coarse selenite crystals.	2.10 (55.64)			
2.40	D2							
2.80	PEN	>5.0x3 kg/cm²						
3.00	SPT	23 N		3.00 m: SPT: 4,5/5,6,6,6	3.0			
				Stiff, closely fissured, dark grey, slightly sandy, silty CLAY with fine selenite crystals.	3.20 (54.54)			
				Stiff, closely fissured, dark grey, silty CLAY with fine selenite crystals.	3.50 (54.24)			
3.80	PEN	4.0/3.75x2 kg/cm²						
3.80	D3							
4.00	SPT	17 N		4.00 m: SPT: 2,2/3,5,4,5	4.0			
					4.50			

General Remarks:
Borehole terminated at 5.45m bgl.

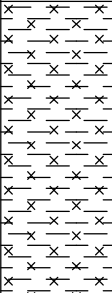
Surface Elevation Level:
57.741 mAOD

All dimensions in metres
Log Scale 1:25

BRD

Telephone: 01295 272244
Email: info@brduk.com

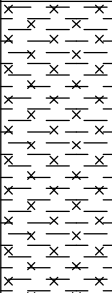
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 17/10/2023 Date Completed: 17/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS107		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN 4	25/3.25/4.0 kg/cm ²		Continued from 4.50m: Stiff, closely fissured, dark grey, silty CLAY with fine selenite crystals. 5.00 m: SPT: 2,3/4,5,6,6	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	21 N			5.45 (52.29)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 57.741 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 17/10/2023 Date Completed: 17/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS108		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.20	J1			TOPSOIL: Grass over dark brown, sandy clay with frequent rootlets.			TS	
				Stiff, grey brown mottled brown, slightly sandy CLAY.	0.30 (56.85)			
0.60	J2						KELLAWAYS CLAY MEMBER	
0.80	PEN	2.75/2.0x2 kg/cm²		Stiff, orange brown mottled grey, silty CLAY.	0.80 (56.35)			
1.00	SPT	15 N		1.00 m: SPT: 2,2/2,3,4,6	1.0			
1.20	D1							
1.60	D2			Medium dense dry, orange brown mottled grey, clayey, silty SAND with occasional ferruginous sandstone gravel.	1.50 (55.65)			
1.80	PEN	4.25/4.0/3.5 kg/cm²		Stiff, grey mottled orange brown, sandy, silty CLAY.	1.70 (55.45)			
2.00	SPT	12 N		2.00 m: SPT: 2,2/2,3,3,4	2.0			
2.80	PEN	2.5/2.0x2 kg/cm²		Stiff, grey with some orange brown mottling, sandy, silty CLAY with yellow silt-sized sulphide deposits.	2.60 (54.55)			
2.90	D3							
3.00	SPT	13 N		3.00 m: SPT: 3,2/3,4,4,2	3.0			
3.60	D4			Stiff, dark grey, sandy, silty CLAY with frequent shell fragments.	3.40 (53.75)			
3.80	PEN	3.5/4.0x2 kg/cm²						
4.00	SPT	17 N		4.00 m: SPT: 2,2/3,4,5,5	4.0			
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 57.146 mAOD			
					All dimensions in metres Log Scale 1:25			
					 Telephone: 01295 272244 Email: info@brduk.com			

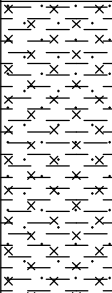
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 17/10/2023 Date Completed: 17/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS108		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	3.75x3 kg/cm ²		Stiff, dark grey silty CLAY with fine selenite crystals and occasional shell fragments. 5.00 m: SPT: 3,3/6,6,7,8	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	27 N			5.45 (51.70)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 57.146 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 17/10/2023 Date Completed: 17/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS109		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Grass over dark brown, sandy clay with frequent rootlets.	0.20 (58.16)		TS	
				Stiff, brown mottled orange brown, sandy, silty CLAY with occasional roots and rootlets.				
0.60	J2				0.70 (57.66)			
0.80	PEN	>5.0x3 kg/cm²		Stiff, grey mottled orange brown, sandy, silty CLAY with occasional roots.				
0.90	D1				1.00 (57.36)			
1.00	SPT	15 N		Stiff, light grey mottled orange brown, silty CLAY with relict rootlets. 1.00 m: SPT: 2,2/3,3,4,5				
1.40	D2							
1.80	PEN	>5.0x3 kg/cm²			2.00 (56.36)			
2.00	SPT	15 N		Stiff, greyish brown mottled orange brown, slightly sandy, silty CLAY with white and yellow, silt-sized sulphide deposits. 2.00 m: SPT: 2,3/3,4,4,4				
2.10	D3							
2.80	PEN	4.0/4.5/4.75 kg/cm²			3.00 (55.36)			
3.00	SPT	13 N		Stiff, dark grey mottled orange brown, slightly sandy, silty CLAY with occasional fine to coarse selenite crystals. 3.00 m: SPT: 2,3/3,3,3,4				
3.10	D4				3.30 (55.06)			
3.80	PEN	4.0x3 kg/cm²						
4.00	SPT	20 N		4.00 m: SPT: 2,2/4,4,6,6	4.00			
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 58.359 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

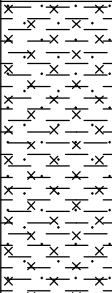
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 17/10/2023 Date Completed: 17/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS109		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.50	D5			Continued from 3.30m: Stiff, dark grey, sandy, silty CLAY with occasional shell fragments. 5.00 m: SPT: 2,3/5,5,6,8			KELLAWAYS CLAY MEMBER	
4.80	PEN	4.5/4.75/5.0 kg/cm²			5.0			
5.00	SPT	24 N			5.45 (52.91)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 58.359 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 17/10/2023 Date Completed: 17/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS110		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Grass over dark brown, sandy clay with frequent rootlets.	0.20 (57.53)		TS	
				Stiff, brown mottled orange brown, sandy CLAY with natural black iron-rich minerals gravel sized.				
0.60	J2							
0.80	PEN	4.75/5.0x2 kg/cm²		Stiff, light grey mottled orange brown, slightly sandy, silty CLAY.	0.70 (57.03)			
1.00	SPT	18 N		Stiff, grey brown to grey mottled orange brown, sandy, silty CLAY. 1.00 m: SPT: 2,2/3,4,5,6	1.0 (56.73)			
1.40	D1							
1.80	PEN	4.75/5.0x2 kg/cm²		Stiff, greyish brown mottled orange brown, sandy, silty CLAY with occasional fine to coarse selenite crystals. 2.00 m: SPT: 2,3/5,6,7,7	2.0 (55.73)			
1.80	D2							
2.00	SPT	25 N						
2.50	D3							
2.80	PEN	4.0/4.75/3.75 kg/cm²					KELLAWAYS CLAY MEMBER	
3.00	SPT	17 N		Stiff, dark grey, sandy, silty CLAY with frequent shell fragments and selenite crystals. 3.00 m: SPT: 2,2/3,4,5,5	3.0 (54.73)			
3.10	D4							
3.80	PEN	>5.0x3 kg/cm²						
4.00	SPT	26 N		4.00 m: SPT: 2,3/5,7,7,7	4.0			
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 57.729 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

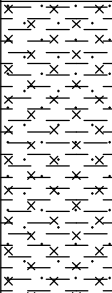
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 17/10/2023 Date Completed: 17/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS110		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	5.0x3 kg/cm²		Continued from 3.00m: Stiff, dark grey, sandy, silty CLAY with frequent shell fragments and selenite crystals.	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	16 N		5.00 m: SPT: 1,2/3,3,5,5	5.45 (52.28)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 57.729 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 18/10/2023 Date Completed: 18/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS111		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.20	J1			MADE GROUND TOPSOIL: Dark brown, sandy clay with rare fine brick fragments.	0.30 (57.62)		MGTS	
0.60	J2			Stiff, brown mottled red brown and grey, sandy, silty CLAY.				
0.80	PEN	>5.0x3 kg/cm²			1.0		KELLAWAYS CLAY MEMBER	
1.00	SPT	13 N		Stiff, light grey mottled orange brown, sandy, silty CLAY. 1.00 m: SPT: 3,3/3,3,3,4	1.00 (56.92)			
1.10	D1							
1.70	D2			1.70 - 2.00 m: Some yellow mottling.				
1.80	PEN	>5.0x3 kg/cm²			2.0			
2.00	SPT	19 N		Stiff, greyish brown mottled orange brown, silty CLAY with yellow, silt-sized sulphide deposits. 2.00 m: SPT: 3,2/4,5,5,5	2.00 (55.92)			
2.20	D3							
2.80	PEN	5.0/4.75x2 kg/cm²		Stiff, dark grey mottled red brown, sandy, silty CLAY with yellow, silt-sized sulphide deposits.	2.70 (55.22)			
3.00	SPT	18 N		Stiff, dark grey, sandy, silty CLAY with rare shell fragments. 3.00 m: SPT: 3,3/5,4,5,4	3.0 (54.92)			
3.30	D4							
3.80	PEN	3.5/4.0/3.0 kg/cm²			4.0			
4.00	SPT	16 N		4.00 m: SPT: 1,2/3,4,5,4 4.00 m: Increase in shell fragments.	4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 57.919 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

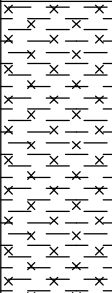
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 18/10/2023 Date Completed: 18/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS111		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	2.5/3.25x2 kg/cm ²		Continued from 3.00m: Stiff, dark grey, sandy, silty CLAY with rare shell fragments.	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	22 N		5.00 m: SPT: 3,4/5,5,6,6	5.45 (52.47)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 57.919 mAOD			
					All dimensions in metres Log Scale 1:25		Telephone: 01295 272244 Email: info@brduk.com	

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 18/10/2023 Date Completed: 18/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS112		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			MADE GROUND TOPSOIL: Grass over slightly gravelly, sandy clay. Gravel of fine to coarse, subangular brick fragments and charcoal.	0.20 (54.46)		MGTS	
0.70	J2			MADE GROUND: Stiff, brown, slightly gravelly, sandy clay. Gravel of fine to medium, subangular to subrounded sandstone, concrete and brick fragments.	0.80 (53.86)		MADE GROUND	
1.00	SPT	4 N		MADE GROUND: Firm, grey mottled red brown, slightly sandy clay.	1.00 (53.66)			
1.10	D1			Firm, brown mottled orange brown, silty CLAY. 1.00 m: SPT: 1,0/1,1,1,1	1.40 (53.26)		KELLAWAYS CLAY MEMBER	
1.80	PEN	4.0/3.5x2 kg/cm²		2.00 m: SPT: 1,1/3,2,3,4	2.0			
1.90	D2							
2.00	SPT	12 N						
2.50	D3			Stiff, dark grey, silty CLAY with occasional fine to coarse selenite crystals.	2.70 (51.96)			
2.80	PEN	3.5/3.0x2 kg/cm²						
3.00	SPT	10 N			3.00 m: SPT: 1,2/2,3,2,3			3.0
3.50	D4			4.00 m: SPT: 2,2/2,4,4,5 4.00 m: Occasional shell fragments below.	4.0			
3.80	PEN	3.5/2.75x2 kg/cm²						
4.00	SPT	15 N						
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 54.657 mAOD			
					All dimensions in metres Log Scale 1:25		Telephone: 01295 272244 Email: info@brduk.com	

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 18/10/2023 Date Completed: 18/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS112		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	3.5/4.25/5.0 kg/cm ²		Continued from 2.70m: Stiff, dark grey, silty CLAY with occasional fine to coarse selenite crystals. 5.00 m: SPT: 1,2/4,4,5,7	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	20 N			5.45 (49.21)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 54.657 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

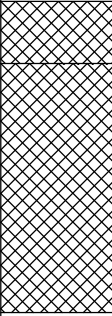
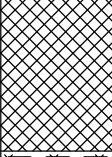
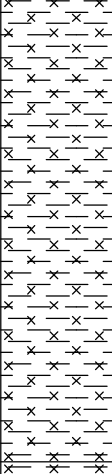
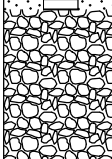
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 18/10/2023 Date Completed: 18/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS113		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.20	J1			TOPSOIL: Dark brown, sandy clay with frequent rootlets.			TS	
				Brown, sandy CLAY with occasional fine ferruginous gravel.	0.30 (52.61)		KSM	
0.80	PEN	1.75/1.25x2		Firm to stiff, orange brown mottled grey, sandy, silty CLAY with occasional fine to medium subangular ferruginous gravel.	0.60 (52.31)			
0.90	J2	kg/cm²						
1.00	SPT	4 N		Firm, grey, silty CLAY with sand sized selenite crystals. 1.00 m: SPT: 1,1/1,1,1,1	1.0 (51.91)		KELLAWAYS CLAY MEMBER	
1.20	D1							
				Stiff, dark grey, silty CLAY with sand sized selenite crystals.	1.50 (51.41)			
1.80	PEN	2.0/1.5x2						
1.80	D2	kg/cm²						
2.00	SPT	9 N		Stiff, dark purple grey, silty CLAY with sand sized selenite crystals. 2.00 m: SPT: 2,2/2,2,2,3	2.0 (50.91)			
2.30	D3							
				2.80 m: Becoming fissured.				
3.00	SPT	27 N		Stiff, fissured, dark grey, silty CLAY with occasional shell fragments. 3.00 m: SPT: 3,4/5,5,7,10	3.0 (49.91)			
3.20	D4							
4.00	SPT	30 N		4.00 m: SPT: 4,6/6,7,8,9	4.0			
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 52.909 mAOD			
					All dimensions in metres Log Scale 1:25		Telephone: 01295 272244 Email: info@brduk.com	

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 18/10/2023 Date Completed: 18/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS113		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	>5.0x3 kg/cm²		Continued from 3.00: Stiff, fissured, dark grey, silty CLAY with occasional shell fragments.	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	50 N		5.00 m: SPT: 6,8/10,13,14,13	5.45 (47.46)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 52.909 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 18/10/2023 Date Completed: 18/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS114			
						Sheet 1 of 2			
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill	
Depth	Type & No	Value							
0.10	J1			MADE GROUND TOPSOIL: Grass over dark brown, sandy clay with frequent roots and rootlets.	0.20 (53.81)		MADE GROUND		
				MADE GROUND: Orange brown mottled grey, sandy, silty clay.					
0.80	J2								
1.00	SPT	0 N		Void. 1.00 m: SPT: 0,0/0,0,0,0	1.0 1.00 (53.01)				
1.50	SPT	11 N			1.50 (52.51)				
1.60	J3			MADE GROUND: Wet, grey, silty clay with fine to coarse, subangular brick fragments and occasional wood fragments and plastic. Slight natural organic odour. 1.50 m: SPT: 2,3/3,3,3,2 1.50 - 2.50 m: 50% recovery.	2.0 2.00 (52.01)				
2.10	D1			Stiff, greyish brown mottled orange brown and yellow brown, silty CLAY.					
2.50	SPT	12 N		2.50 m: SPT: 2,2/2,3,3,4 2.50 - 3.50 m: 50% recovery, 50% collapsed material.	3.0				KELLAWAYS CLAY MEMBER
3.50	SPT	7 N		Stiff, dark grey, silty CLAY with fine to coarse selenite crystals. 3.50 m: SPT: 1,1/1,1,2,3	3.50 (50.51)				
4.00	SPT	10 N		4.00 m: SPT: 1,1/2,2,3,3	4.0				
				4.50					
General Remarks: Borehole terminated at 5.45m bgl. Cased to 3.00m bgl due to borehole collapse.					Surface Elevation Level: 54.013 mAOD		 Telephone: 01295 272244 Email: info@brduk.com		
					All dimensions in metres Log Scale 1:25				

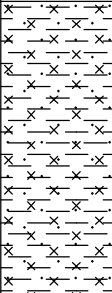
PROBEHOLE RECORD

[illegible]

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 18/10/2023 Date Completed: 18/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS115		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Dark brown, sandy clay with frequent rootlets.	0.20 (56.64)		TS	
0.70	J2			Firm, grey mottled reddish orange brown, sandy CLAY with occasional ferruginous gravel.			KELLAWAYS SAND MEMBER	
0.80	PEN	1.0/2.0x2 kg/cm²						
1.00	SPT	8 N			1.0 (55.84)			
1.40	D1			Firm, moist, light grey mottled orange brown, sandy, silty CLAY. 1.00 m: SPT: 1,1/2,2,1,3 1.50 m: Very sandy.				
1.80	PEN	1.75/3.0/2.75 kg/cm²			2.0			
2.00	SPT	11 N						
2.10	D2			2.00 m: SPT: 1,1/2,3,3,3				
				Stiff, grey, sandy, silty CLAY with occasional shell fragments.	2.50 (54.34)		KELLAWAYS CLAY MEMBER	
2.80	PEN	2.0/2.75x2 kg/cm²						
2.80	D3				3.0			
3.00	SPT	19 N		3.00 m: SPT: 2,3/4,5,5,5				
3.80	PEN	2.0/2.25x2 kg/cm²						
3.80	D4				4.0			
4.00	SPT	17 N		4.00 m: SPT: 2,3/4,4,4,5				
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 56.835 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

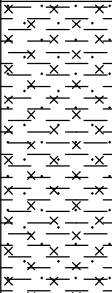
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 18/10/2023 Date Completed: 18/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS115		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	4.0/3.5x2		Continued from 2.50m: Stiff, grey, sandy, silty CLAY with occasional shell fragments.	5.0		KELLAWAYS CLAY MEMBER	
4.80	D5	kg/cm ²						
5.00	SPT	30 N		5.00 m: SPT: 3,5/6,7,7,10	5.45 (51.39)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 56.835 mAOD			
					All dimensions in metres Log Scale 1:25		Telephone: 01295 272244 Email: info@brduk.com	

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 19/10/2023 Date Completed: 19/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS116		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Dark brown, sandy clay with frequent rootlets.	0.20 (57.89)		TS	
0.50	J2			Firm, brown, sandy CLAY with occasional ferruginous gravel.	0.70 (57.39)		KELLAWAYS SAND MEMBER	
0.80	PEN	4.0/4.75/4.5 kg/cm²		Stiff, orange brown mottled grey, slightly sandy, silty CLAY.	1.0			
1.00	SPT	14 N		1.00 m: SPT: 4,3/3,3,4,4	1.30 (56.79)			
1.50	D1			Stiff, grey mottled orange brown, very sandy CLAY.	2.0			
1.80	PEN	1.75/1.25/1.5 kg/cm²		2.00 m: SPT: 2,1/2,2,2,3	2.30 (55.79)		KELLAWAYS CLAY MEMBER	
2.00	SPT	9 N			3.0			
2.50	D2			Stiff, grey, sandy, silty CLAY with occasional shell fragments and fine selenite crystals.				
2.80	PEN	1.5/2.25/3.25 kg/cm²		3.00 m: SPT: 1,1/1,3,2,2				
3.00	SPT	8 N						
3.10	D3							
3.80	PEN	3.0/2.5/2.0 kg/cm²			4.0			
4.00	SPT	16 N		4.00 m: SPT: 1,3/4,4,4,4	4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 58.088 mAOD			
					All dimensions in metres Log Scale 1:25		Telephone: 01295 272244 Email: info@brduk.com	

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 19/10/2023 Date Completed: 19/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS116		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	3.25/2.5x2 kg/cm ²		Continued from 2.30m: Stiff, grey, sandy, silty CLAY with occasional shell fragments and fine selenite crystals. 5.00 m: SPT: 2,2/2,4,6,5	5.0		KELLAWAYS CLAY MEMBER	
5.00	SPT	17 N			5.45 (52.64)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 58.088 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 19/10/2023 Date Completed: 19/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS117		
						Sheet 1 of 1		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Dark brown, sandy clay with frequent rootlets.	0.20 (55.16)		TS	
				Firm, brown, slightly sandy CLAY.				
0.60	J2							
				Stiff, grey mottled orange brown, slightly sandy, silty CLAY with sand sized selenite crystals.	0.70 (54.66)			
1.00	D1				1.0			
1.20	SPT	13 N		1.20 m: SPT: 1,1/2,3,4,4				
1.90	PEN	2.25/2.75x2		Stiff, dark grey mottled orange brown, silty CLAY with yellow, silt-sized sulphide deposits.	1.80 (53.56)		KELLAWAYS CLAY MEMBER	
1.90	D2	kg/cm²			2.0			
2.00	SPT	11 N		2.00 m: SPT: 1,1/1,2,4,4				
2.50	D3			Very stiff to hard, moist, grey, sandy CLAY with abundant gravel sized fossil shell fragments.	2.40 (52.96)			
2.65	SPT	>50 N		2.65m: SPT: 25 for 5mm/ 50 for 5mm	2.65 (52.71)			
					3.0			
					4.0			
General Remarks: Refused at 2.65m bgl possibly on a large septarian concretion. Hand dug to 1.20m for services clearance.					Surface Elevation Level: 55.36 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

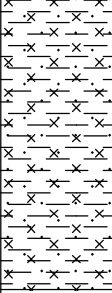
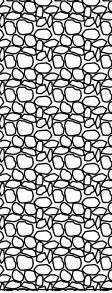
PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 19/10/2023 Date Completed: 19/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS118		
						Sheet 1 of 1		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Dark brown, sandy clay with frequent rootlets.	0.20 (55.61)		TS	
0.60	J2			Firm, brown slightly mottled grey, slightly sandy CLAY.	0.80 (55.01)		KELLAWAYS SAND MEMBER	
1.10	D1			Stiff, moist, grey mottled orange brown, sandy CLAY with occasional calcareous concretions.	1.0			
1.20	SPT	6 N		1.20 m: SPT: 1,0/1,2,1,2				
1.50	D2			1.40 m: Pocket of brown mottled orange brown SAND.				
1.65	SPT	>50 N		1.50 m: Shell fragments below.	1.65 (54.16)			
				1.65m: SPT: 25 for 25mm/ 50 for 10mm	2.0			
					3.0			
					4.0			
General Remarks: Refused at 1.65m bgl on possible competent rock bed. Hand dug to 1.20m for services clearance.					Surface Elevation Level: 55.811 mAOD			
					All dimensions in metres Log Scale 1:25		Telephone: 01295 272244 Email: info@brduk.com	

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 19/10/2023 Date Completed: 19/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS119		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Grass over dark brown, very sandy clay with frequent rootlets.			TS	
				Stiff, orange brown mottled brown, sandy CLAY with occasional fine to medium subangular small natural iron-rich minerals fine gravel sized.	0.40 (59.75)			
0.80	PEN J2	125/0.75/1.0 kg/cm²		Firm to stiff, orange brown mottled grey, sandy CLAY.	0.90 (59.25)		KELLAWAYS SAND MEMBER	
0.80	J2			Firm, moist, light grey mottled orange brown, very sandy, silty CLAY.	1.00 (59.15)			
1.00	SPT	9 N		1.00 m: SPT: 1,1/2,2,2,3				
1.20	D1			Soft, wet, brown to orange brown, slightly gravelly, very sandy, silty CLAY. Gravel of fine to medium, subangular ferruginous sandstone.	1.40 (58.75)			
1.60	D2			Stiff, dark grey, sandy, silty CLAY.	1.70 (58.45)		KELLAWAYS CLAY MEMBER	
1.80	PEN	2.25/1.0/1.5 kg/cm²		Stiff, bluish grey, slightly sandy, silty CLAY with occasional shell fragments.	1.90 (58.25)			
2.00	SPT	13 N		2.00 m: SPT: 2,2/3,3,3,4				
2.40	D3							
2.80	PEN	1.0/2.0/1.75 kg/cm²		3.00 m: SPT: 2,2/2,13,12,7	3.0		KELLAWAYS CLAY MEMBER	
3.00	SPT	34 N						
3.80	PEN D4	3.5/4.25x2 kg/cm²		Stiff, dark grey, sandy, silty CLAY with fine selenite crystals and occasional shell fragments.	3.70 (56.45)			
3.90	D4							
4.00	SPT	17 N		4.00 m: SPT: 2,2/2,3,6,6	4.0		KELLAWAYS CLAY MEMBER	
4.00	SPT							
					4.50			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 60.152 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 19/10/2023 Date Completed: 19/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS119		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
4.80	PEN	2.5/3.5x2 kg/cm ²		Continued from 3.70m: Stiff, dark grey, sandy, silty CLAY with fine selenite crystals and occasional shell fragments.			KELLAWAYS CLAY MEMBER	
5.00	SPT	30 N		5.00 m: SPT: 2,2/5,6,9,10	5.0			
					5.45 (54.70)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl.					Surface Elevation Level: 60.152 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 19/10/2023 Date Completed: 19/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS120		
						Sheet 1 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
0.10	J1			TOPSOIL: Dark brown, sandy clay with frequent rootlets.			TS	
				Firm, brown, slightly sandy CLAY.	0.30 (54.44)			
0.70	J2				1.0		KELLAWAYS CLAY MEMBER	
				Stiff, light grey mottled orange brown, silty CLAY with sand sized selenite crystals.	1.00 (53.74)			
1.20	SPT	2 N		Stiff, dark grey, silty CLAY with sand sized selenite crystals.	1.20 (53.54)			
1.30	D1			1.20 m: SPT: 0,0/0,1,0,1				
				Stiff, greyish brown mottled dark grey and yellow, silty CLAY.	1.60 (53.14)			
1.80	PEN	1.0X3			2.0			
1.80	D2	kg/cm²						
2.00	SPT	9 N		2.00 m: SPT: 2,1/2,2,2,3	2.20 (52.54)			
				Stiff, greyish brown, silty CLAY with fine selenite crystals.				
2.50	D3							
3.00	SPT	11 N		3.00 m: SPT: 2,1/2,3,3,3	3.0			
				Stiff, closely fissured, dark grey, silty CLAY with occasional shell fragments.	3.40 (51.34)			
4.00	SPT	20 N		4.00 m: SPT: 3,3/4,5,5,6	4.0			
					4.50			
General Remarks: Borehole terminated at 5.45m bgl. Hand dug to 1.20m for services clearance.					Surface Elevation Level: 54.741 mAOD			
					All dimensions in metres Log Scale 1:25			Telephone: 01295 272244 Email: info@brduk.com

PROBEHOLE RECORD

Client: Gleeson Land Project Title: Forest Farm, Chippenham Project No: BRD2483 Logged By: N Kimber Date Commenced: 19/10/2023 Date Completed: 19/10/2023 Method Used: Windowless Percussive Sampling Rig						Borehole No. WS120		
						Sheet 2 of 2		
Samples & Tests			Water	Description of Strata	Depth / (Level)	Legend	Geology	Installation /Backfill
Depth	Type & No	Value						
5.00	SPT	19 N		Continued from 3.40m: Stiff, closely fissured, dark grey, silty CLAY with occasional shell fragments.			KELLAWAYS CLAY MEMBER	
				5.00 m: SPT: 2,3/4,5,5,5	5.0			
					5.45 (49.29)			
					6.0			
					7.0			
					8.0			
					9.0			
General Remarks: Borehole terminated at 5.45m bgl. Hand dug to 1.20m for services clearance.					Surface Elevation Level: 54.741 mAOD		 Telephone: 01295 272244 Email: info@brduk.com	
					All dimensions in metres Log Scale 1:25			



SOIL INFILTRATION RATE

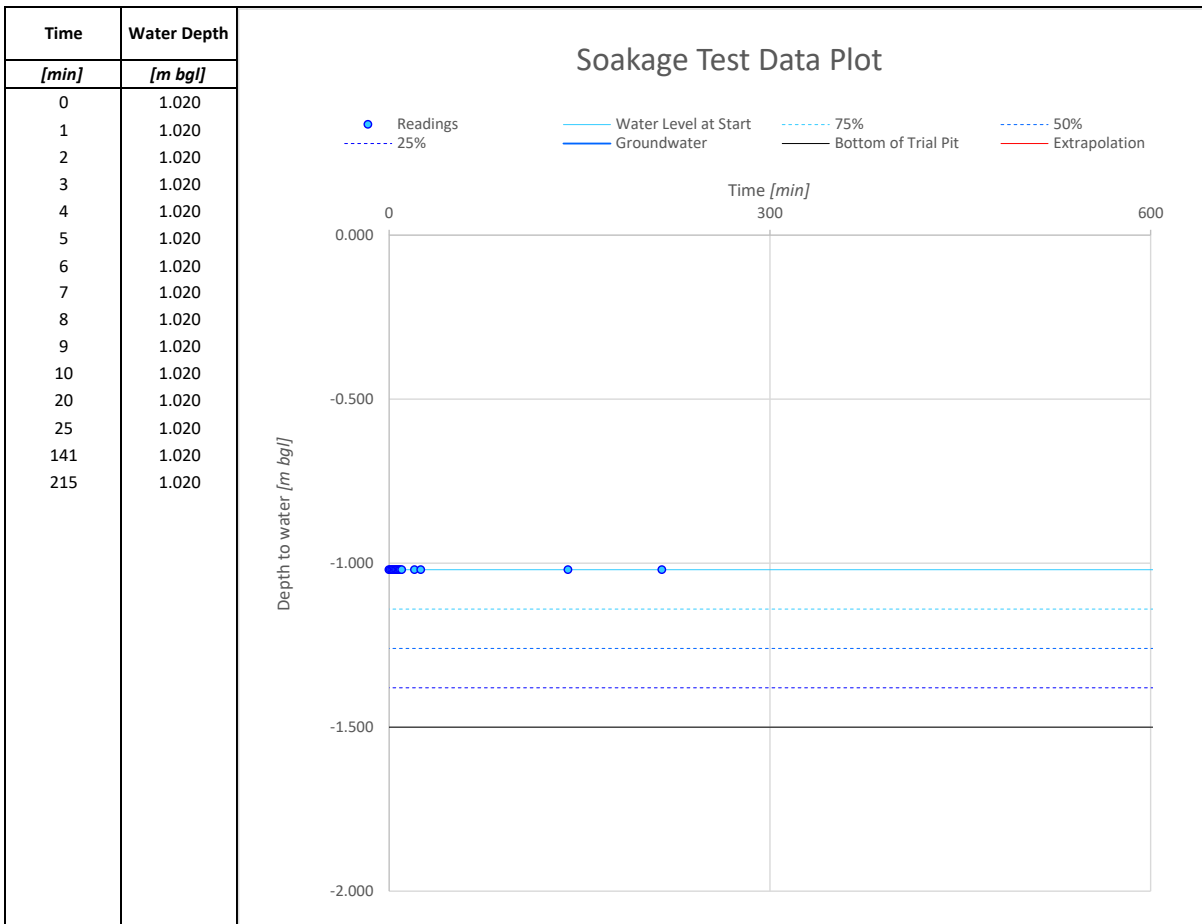
In accordance with BRE Digest 365:2016 - Soakaway Design

Client: Gleeson Land
Project Title: Forest Farm, Chippenham
Project No: BRD2483

Trial Pit No: TP101
Test No: 1
Date: 16/10/2023
Logged by: DB

Length [m]: 1.30
Depth [m]: 1.50
Width [m]: 0.50
Groundwater [m bgl]: Dry

Ground	Conditions	from - to [m bgl]		Description
		0.00	0.30	TOPSOIL: Grass over: Dark brown, silty clay with many rootlets.
		0.30	0.60	Firm to stiff, orange brown mottled light grey, slightly sandy, silty CLAY.
		0.60	1.30	Stiff, light grey mottled orange brown, slightly silty CLAY.
		1.30	1.20	Stiff, light grey with occasional orange brown mottling, silty CLAY with selenite crystals.



Soil Infiltration Rate [m/s]:
$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

with:

V_{p75-25} as Effective Storage Volume of water between 75% and 25% effective storage depth [m³] **0.16**

a_{s50} as Internal Surface Area of the soakage trial pit up to 50% storage depth including the base area [m²] **1.51**

t_{p75-25} as Time for the water level to fall from 75% to 25% effective storage depth [s] **n/a**

Soil Infiltration Rate [m/s]: **n/a**

Remarks: Result could not be calculated. Soakage test failed.



SOIL INFILTRATION RATE

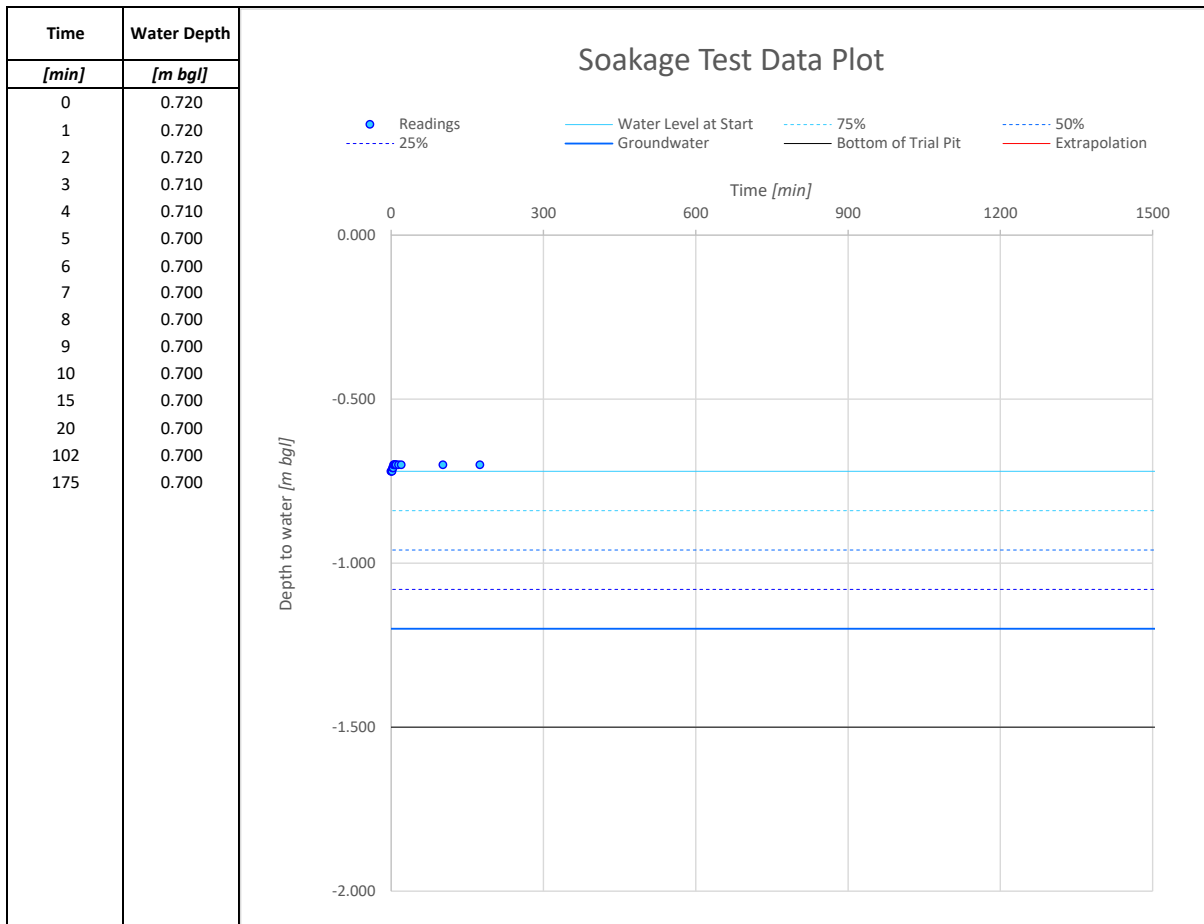
In accordance with BRE Digest 365:2016 - Soakaway Design

Client: Gleeson Land
Project Title: Forest Farm, Chippenham
Project No: BRD2483

Trial Pit No: TP102
Test No: 1
Date: 16/10/2023
Logged by: DB

Length [m]: 1.20
Depth [m]: 1.50
Width [m]: 0.50
Groundwater [m bgl]: 1.20

Ground	Conditions	from - to [m bgl]		Description
		0.00	0.25	MADE GROUND/TOPSOIL: Grass over: Dark brown, silty clay with rootlets and rare ceramics.
		0.25	1.20	Firm, orange brown mottled light grey, slightly sandy in parts, silty CLAY.
		1.20	1.50	Firm, light grey with occasional orange brown mottling, silty CLAY with many fine, sandy sized selenite crystals.



Soil Infiltration Rate [m/s]:
$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

with:

V_{p75-25} as Effective Storage Volume of water between 75% and 25% effective storage depth [m³] **0.14**

a_{s50} as Internal Surface Area of the soakage trial pit up to 50% storage depth including the base area [m²] **1.42**

t_{p75-25} as Time for the water level to fall from 75% to 25% effective storage depth [s] **n/a**

Soil Infiltration Rate [m/s]: **n/a**

Remarks: Result could not be calculated. Soakage test failed.



SOIL INFILTRATION RATE

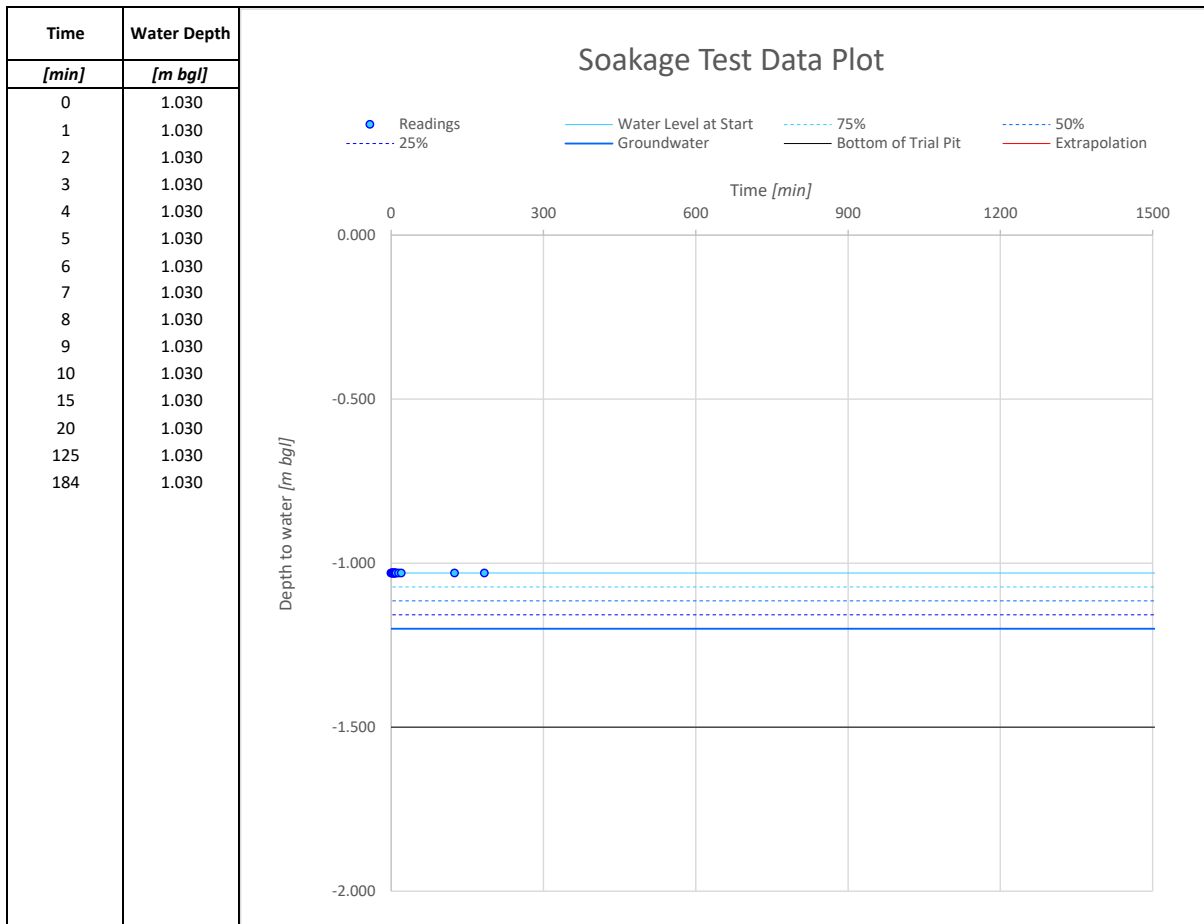
In accordance with BRE Digest 365:2016 - Soakaway Design

Client: Gleeson Land
Project Title: Forest Farm, Chippenham
Project No: BRD2483

Trial Pit No: TP103
Test No: 1
Date: 16/10/2023
Logged by: DB

Length [m]: 1.40
Depth [m]: 1.50
Width [m]: 0.50
Groundwater [m bgl]: 1.20

Ground	Conditions	from - to [m bgl]		Description
		0.00	0.35	TOPSOIL: Grass over: Dark brown, silty clay with many rootlets.
		0.35	1.50	Firm, orange brown mottling light grey, slightly silty CLAY with rare relict rootlets.



Soil Infiltration Rate [m/s]:
$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

with:

V_{p75-25} as Effective Storage Volume of water between 75% and 25% effective storage depth [m³] **0.06**

a_{s50} as Internal Surface Area of the soakage trial pit up to 50% storage depth including the base area [m²] **1.02**

t_{p75-25} as Time for the water level to fall from 75% to 25% effective storage depth [s] **n/a**

Soil Infiltration Rate [m/s]: **n/a**

Remarks: Result could not be calculated. Soakage test failed.



SOIL INFILTRATION RATE

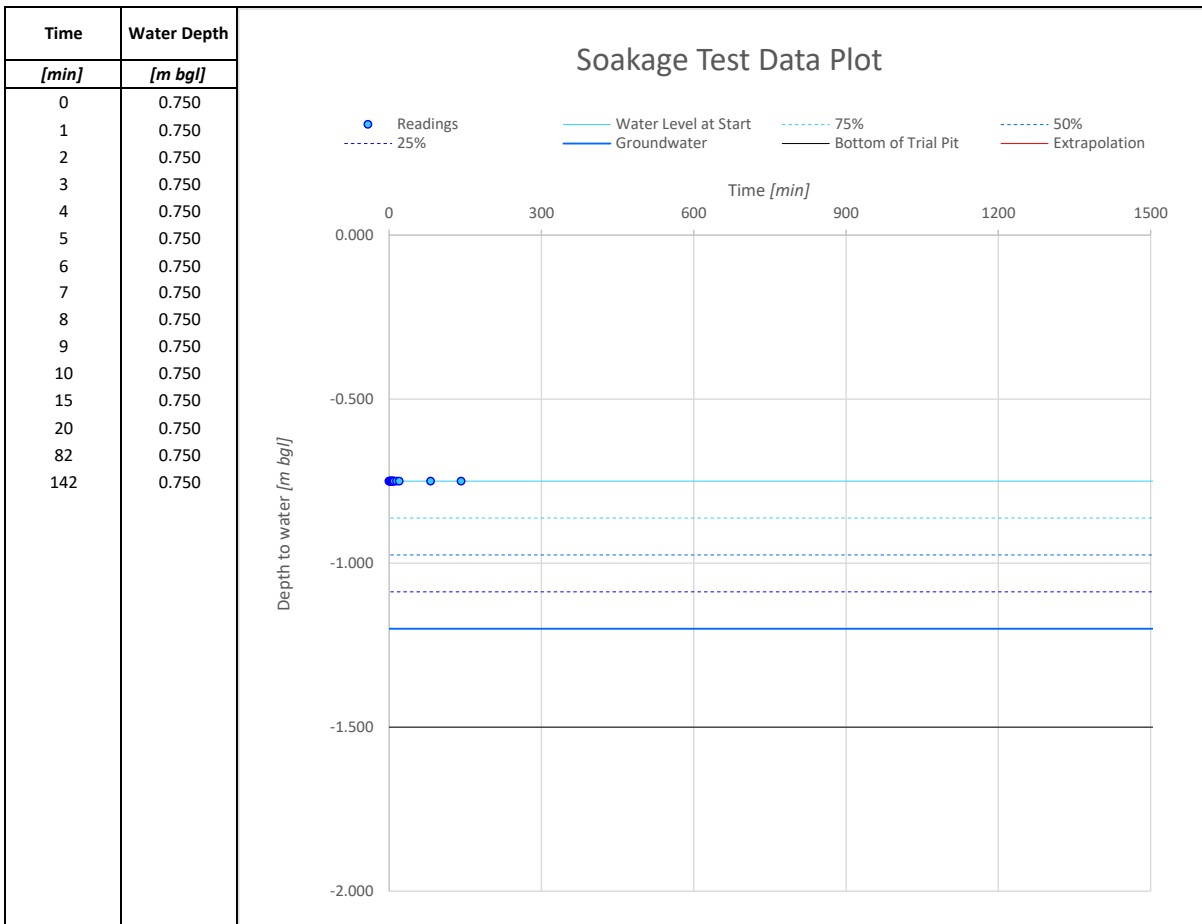
In accordance with BRE Digest 365:2016 - Soakaway Design

Client: Gleeson Land
Project Title: Forest Farm, Chippenham
Project No: BRD2483

Trial Pit No: TP104
Test No: 1
Date: 16/10/2023
Logged by: DB

Length [m]: 1.10
Depth [m]: 1.50
Width [m]: 0.50
Groundwater [m bgl]: 1.20

Ground	Conditions	from - to [m bgl]		Description
		0.00	0.30	TOPSOIL: Grass over: Dark brown, silty clay with many rootlets.
		0.30	0.80	Firm to stiff, orange brown mottled light grey, slightly sandy, silty CLAY.
		0.80	1.20	Soft, moist, orange brown with occasional light grey, very sandy, silty CLAY.
		1.20	1.50	Stiff, fissured, light grey mottled orange brown, silty CLAY with occ calcareous concretions.



Soil Infiltration Rate [m/s]:
$$f = \frac{V_{p75-25}}{a_{s50} \times t_{p75-25}}$$

with:

V_{p75-25} as Effective Storage Volume of water between 75% and 25% effective storage depth [m³] **0.12**

a_{s50} as Internal Surface Area of the soakage trial pit up to 50% storage depth including the base area [m²] **1.27**

t_{p75-25} as Time for the water level to fall from 75% to 25% effective storage depth [s] **n/a**

Soil Infiltration Rate [m/s]: **n/a**

Remarks: Result could not be calculated. Soakage test failed.

Determination of the dynamic deflection modulus in compliance with TP BF-StB Teil B 8.3

Contractor **BRD Environmental Ltd**

Client **Gleeson Land**

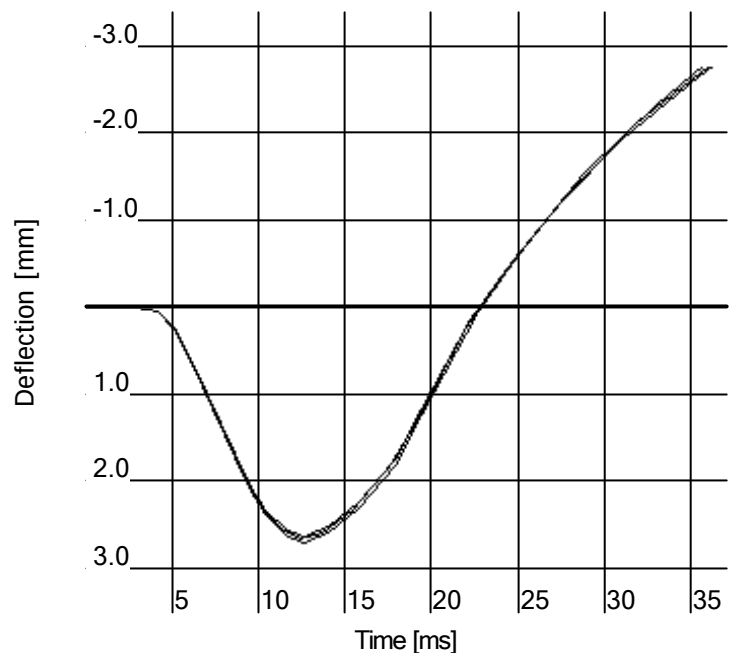
Project **Forest Farm, Chippenham**

Manufacturer	Zorn Instruments	Device Number	10708
Testing instrument	ZFG 3.0	Measurement Type	300 mm/10 kg

Test Number (No)	LWD101	Card Number	0
Testing Date & Time	2023.10.16 12:53:05	Operator	Rob Davies
Location	TP105	Layer thickness	
Soil type	Firm to stiff, slightly silty CLAY.	Weather/Temperature	
Soil group	Kellaways Sand Member		

Pulse	v [mm/s]	s [mm]
1	464.0	2.697
2	457.1	2.660
3	454.2	2.630
Ø	458.4	2.662

Result **Evd: 8.45 MN/m²**
s/v: 5.807ms



Comments

Location	N 51°441895 W 2°089948
----------	---------------------------

Determination of the dynamic deflection modulus in compliance with TP BF-StB Teil B 8.3

Contractor **BRD Environmental Ltd**

Client **Gleeson Land**

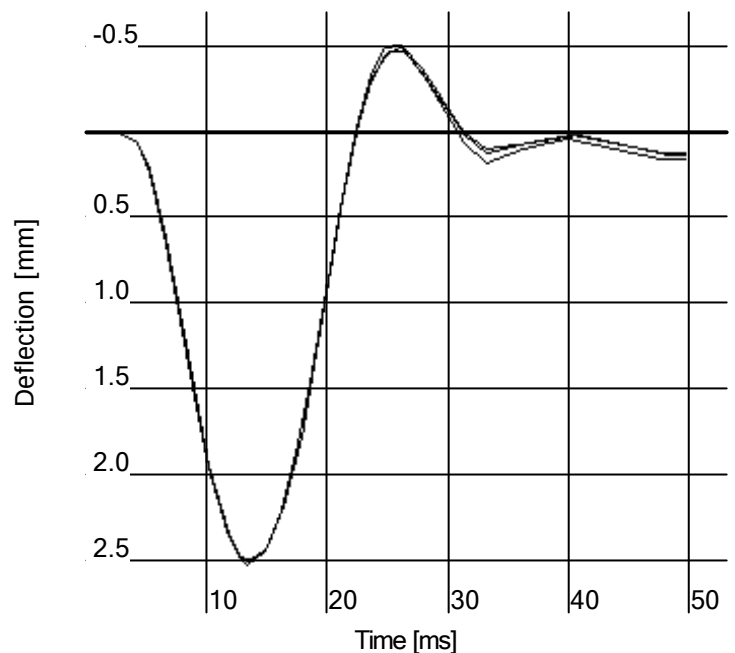
Project **Forest Farm, Chippenham**

Manufacturer	Zorn Instruments	Device Number	10708
Testing instrument	ZFG 3.0	Measurement Type	300 mm/10 kg

Test Number (No)	LWD102	Card Number	0
Testing Date & Time	2023.10.16 13:12:46	Operator	Rob Davies
Location	TP106	Layer thickness	
Soil type	Firm, slightly silty CLAY.	Weather/Temperature	
Soil group	Kellaways Clay Member		

Pulse	v [mm/s]	s [mm]
1	393.6	2.500
2	394.8	2.510
3	393.3	2.504
Ø	393.9	2.505

Result **Evd: 8.98 MN/m²**
s/v: 6.359ms



Comments

Location	N 51°442993 W 2°084372	
----------	---------------------------	--

Determination of the dynamic deflection modulus in compliance with TP BF-StB Teil B 8.3

Contractor **BRD Environmental Ltd**

Client **Gleeson Land**

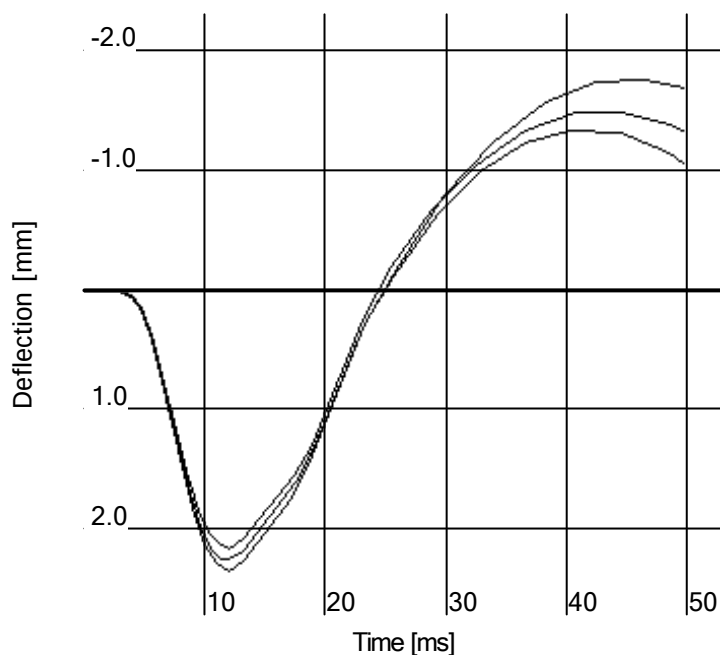
Project **Forest Farm, Chippenham**

Manufacturer	Zorn Instruments	Device Number	10708
Testing instrument	ZFG 3.0	Measurement Type	300 mm/10 kg

Test Number (No)	LWD103	Card Number	0
Testing Date & Time	2023.10.16 13:44:39	Operator	Rob Davies
Location	TP107	Layer thickness	
Soil type	Firm to stiff, slightly silty CLAY.	Weather/Temperature	
Soil group	Kellaways Clay Member		

Pulse	v [mm/s]	s [mm]
1	437.4	2.328
2	438.7	2.244
3	416.7	2.137
Ø	430.9	2.236

Result **Evd: 10.06 MN/m²**
s/v: 5.190ms



Comments

Location	N 51°442013 W 2°087255
----------	---------------------------

Determination of the dynamic deflection modulus in compliance with TP BF-StB Teil B 8.3

Contractor **BRD Environmental Ltd**

Client **Gleeson Land**

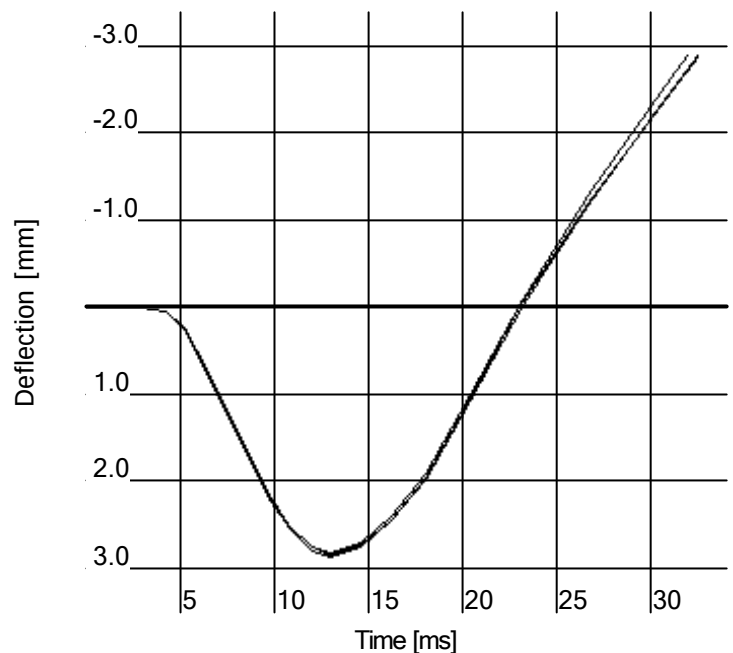
Project **Forest Farm, Chippenham**

Manufacturer	Zorn Instruments	Device Number	10708
Testing instrument	ZFG 3.0	Measurement Type	300 mm/10 kg

Test Number (No)	LWD104	Card Number	0
Testing Date & Time	2023.10.16 14:20:01	Operator	Rob Davies
Location	TP108	Layer thickness	
Soil type	Firm, silty CLAY.	Weather/Temperature	
Soil group	Kellaways Sand Member		

Pulse	v [mm/s]	s [mm]
1	457.5	2.859
2	455.3	2.838
3	458.2	2.822
Ø	457.0	2.840

Result **Evd: 7.92 MN/m²**
s/v: 6.214ms



Comments

Location	N 51°444199 W 2°083135	
----------	---------------------------	--



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	24/10/2023	Ground conditions:	Damp underfoot	Recorded by:	SW
Time at start:	12:02	Weather conditions:	cool and sunny, later overcast with some rain	Pressure trend:	Falling
Time at finish:	15:53	Air Temperature (°C):	14	Monitor serial no:	G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	0.56	0.46	4.21	0.0	1.8	19.0	0.0	1.8	18.7	37	0	996	4.9	0.0	
WS103	0.71	0.58	4.26	0.0	2.8	17.3	0.0	2.8	16.9	6	0	997	2.5	0.0	
WS104	0.80	0.69	4.20	0.0	3.0	18.7	0.0	3.0	18.5	9	0	997	1.8	0.0	
WS105	1.17	1.04	4.25	0.0	5.5	12.3	0.0	7.0	12.3	9	0	997	-0.4	0.0	
WS107	Dry	Dry	4.20	0.0	4.2	13.2	0.0	4.2	13.1	1	0	996	-0.2	0.0	
WS109	1.41	1.30	4.21	0.0	4.5	15.6	0.0	4.5	15.5	10	0	997	-0.2	0.0	
WS111	4.18	4.07	4.21	0.0	3.2	16.7	0.0	3.2	16.4	1	0	997	-0.1	0.0	
WS113	0.39	0.27	4.20	0.0	1.6	19.9	0.0	1.6	19.9	15	1	997	14.8	0.0	
WS114	0.83	0.69	3.91	0.0	0.7	20.2	0.0	0.8	19.8	9	0	997	-5.9	0.0	
WS115	0.69	0.58	4.22	0.0	0.1	21.4	0.0	0.5	20.8	1	0	996	-0.5	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	24/10/2023	Ground conditions:	Damp underfoot	Recorded by:	SW
Time at start:	12:02	Weather conditions:	cool and sunny, later overcast with some rain	Pressure trend:	Falling
Time at finish:	15:53	Air Temperature (°C):	14	Monitor serial no:	G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	4.21	4.09	4.22	0.0	0.2	21.3	0.0	0.2	21.3	2	0	996	-0.3	0.0	Groundwater level above top of standpipe.
WS117	0.20	0.09	2.70	0.0	0.5	19.6	0.0	0.5	19.5	15	0	996	-0.3	0.0	
WS118	0.39	0.30	1.65	0.0	0.1	21.2	0.0	0.1	21.2	2	0	996	-0.3	0.0	
WS119	0.15	NR	4.03	0.0	0.1	21.4	0.0	0.1	21.4	1	0	996	-0.3	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	30/10/2023	Ground conditions:	Wet	Recorded by:	SW
Time at start:	12:02 PM	Weather conditions:	Sunny, some clouds	Pressure trend:	Rising.
Time at finish:	3:53 PM	Air Temperature (°C):	14	Monitor serial no:	G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Borehole flooded, unable to monitor.
WS103	0.51	0.37	4.27	0.0	1.5	19.9	0.0	1.5	19.4	5	0	990	2.2	0.0	
WS104	0.64	0.53	4.20	0.0	2.9	13.7	0.0	2.9	13.7	2	0	990	4.0	0.0	
WS105	1.09	0.97	4.24	0.0	3.1	12.1	0.0	3.4	12.1	4	0	990	5.1	0.0	
WS107	1.27	1.14	4.23	0.0	3.1	11.6	0.0	3.1	11.5	1	0	990	-2.2	0.0	
WS109	1.10	0.99	4.21	0.0	4.4	16.3	0.0	4.6	16.3	2	0	990	10.2	0.0	
WS111	4.02	3.90	4.22	0.0	4.3	13.5	0.0	4.3	13.4	2	0	991	-0.1	0.0	
WS113	0.29	0.19	4.21	0.0	10.4	16.4	0.0	10.4	16.4	5	0	991	7.9	0.0	
WS114	0.73	0.59	3.92	0.0	0.1	20.8	0.0	0.1	20.8	1	0	990	4.9	0.0	
WS115	0.24	0.13	4.22	0.0	2.0	18.7	0.0	2.0	18.7	13	0	991	2.0	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	30/10/2023	Ground conditions:	Wet	Recorded by:	SW
Time at start:	12:02 PM	Weather conditions:	Sunny, some clouds	Pressure trend:	Rising.
Time at finish:	3:53 PM	Air Temperature (°C):	14	Monitor serial no:	G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	3.05	2.93	4.22	0.0	3.0	14.1	0.0	3.0	14.1	1	0	990	-0.3	0.0	Groundwater level above top of standpipe, could not PID.
WS117	0.23	0.12	2.71	0.0	0.5	20.2	0.0	0.6	20.2	2	0	990	4.2	0.0	
WS118	0.11	0.02	1.65	0.0	0.1	19.0	0.0	0.1	19.0	14	0	990	-0.4	0.0	
WS119	0.10	NR	4.04	0.0	0.1	21.0	0.0	0.1	21.0	1	0	990	-0.3	N/A	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	07/11/2023	Ground conditions:	Wet	Recorded by:	SW
Time at start:	11:24 AM	Weather conditions:	Sunny with occasional clouds	Pressure trend:	Rising
Time at finish:	3:16 PM	Air Temperature (°C):	12	Monitor serial no:	G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	1.34	1.22	4.21	0.0	2.2	19.5	0.0	2.2	19.2	0	0	1005	0.1	0.0	Groundwater level above top of standpipe.
WS117	0.15	0.04	2.71	0.0	0.1	17.9	0.0	0.2	17.9	3	0	1006	2.0	0.0	
WS118	0.14	0.04	1.66	0.0	0.7	14.2	0.0	0.7	14.6	5	0	1005	-2.5	0.0	
WS119	0.08	NR	4.05	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date: 07/11/2023 Ground conditions: Wet Recorded by: SW
Time at start: 11:24 AM Weather conditions: Sunny with occasional clouds Pressure trend: Rising
Time at finish: 3:16 PM Air Temperature (°C): 12 Monitor serial no: G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	0.05	NR	4.21	0.0	0.2	21.3	0.0	0.2	21.4	0	0	1004	NR	NR	Groundwater level above top of standpipe.
WS103	0.33	0.20	4.26	0.0	0.8	20.5	0.0	0.8	20.5	2	0	1005	5.5	0.0	
WS104	0.32	0.21	4.20	0.0	4.0	18.9	0.0	4.0	18.9	2	0	1005	12.5	0.0	
WS105	1.03	0.89	4.24	0.0	2.6	13.8	0.0	2.6	13.8	2	0	1005	2.7	0.0	
WS107	2.36	2.23	4.22	0.0	5.2	10.4	0.0	5.2	10.3	1	0	1005	3.8	0.0	
WS109	1.22	1.10	4.21	0.0	4.5	16.5	0.0	4.6	16.2	1	0	1005	0.2	0.0	
WS111	3.14	3.03	4.22	0.0	5.7	12.4	0.0	5.7	12.4	1	0	1005	0.2	0.0	
WS113	0.30	0.20	4.21	0.0	13.2	14.3	0.0	13.2	14.3	4	0	1005	0.1	0.0	
WS114	0.82	0.65	3.92	0.0	0.6	21.1	0.0	1.0	21.0	1	0	1005	-2.4	0.0	
WS115	0.22	0.11	4.22	0.0	4.2	12.6	0.0	4.2	12.7	3	0	1005	0.2	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date: 12/12/2023 Ground conditions: Flooded, water logged and wet. Recorded by: R Davies
Time at start: 8:58 AM Weather conditions: Overcast, light winds and rain showers. Pressure trend: Falling.
Time at finish: 11:49 AM Air Temperature (°C): 8 Monitor serial no: G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Borehole flooded.
WS103	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Borehole flooded.
WS104	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Borehole flooded.
WS105	0.50	0.36	4.25	0.0	4.3	13.9	0.0	4.3	13.9	0	0	992	5.1	0.0	Flow peaked at 17.3l/hr then gradually decreased to 5.1l/hr after ~2 minutes and still dropping.
WS107	3.31	3.27	4.23	0.0	5.8	3.3	0.0	5.8	3.3	2	0	992	0.1	0.0	Borehole cover flooded, bailed out and monitored.
WS109	0.87	0.74	4.21	0.0	7.8	6.9	0.0	8.1	6.1	0	0	992	0.9	0.0	Flow peaked at 17.3l/hr then gradually decreased to 0.9l/hr after ~7 minutes and still dropping.
WS111	1.03	0.94	4.22	0.0	8.1	10.3	0.0	9.4	7.1	0	0	992	1.5	0.0	Flow peaked at 12.3l/hr then gradually decreased to 1.5l/hr after ~5 minutes and still dropping.
WS113	0.33	0.19	4.22	0.0	11.9	12.6	0.0	11.9	12.6	4	0	992	1.4	0.0	Flow peaked at 2.8l/hr then gradually decreased to 1.4l/hr after ~2 minutes and still dropping. Gas monitor sucked up groundwater after ~40 seconds.
WS114	0.74	0.58	3.93	0.0	0.9	20.1	0.0	0.9	20.1	2	0	992	2.2	0.0	Flow peaked at 3.1l/hr then gradually decreased to 2.2l/hr after ~2 minutes and still dropping. Gas monitor sucked up groundwater after ~90 seconds.
WS115	0.30	-0.01	4.21	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	No gas tap fitted, resting groundwater level above the top of the standpipe.



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	12/12/2023	Ground conditions:	Flooded, water logged and wet.	Recorded by:	R Davies
Time at start:	8:58 AM	Weather conditions:	Overcast, light winds and rain showers.	Pressure trend:	Falling.
Time at finish:	11:49 AM	Air Temperature (°C):	8	Monitor serial no:	G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	0.60	0.47	4.22	0.0	1.3	20.8	0.0	1.6	20.8	0	0	992	0.0	0.0	Gas tap left open, gas monitor pump failed after ~70 seconds.
WS117	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Borehole flooded.
WS118	0.20	0.09	1.66	0.0	3.1	6.9	0.0	3.1	6.9	4	0	991	-0.1	0.0	Gas monitor sucked up groundwater after ~35 seconds.
WS119	0.08	-0.09	4.02	0.0	0.2	21.1	0.0	0.2	21.1	0	0	991	0.0	0.0	Borehole cover flooded, bailed out and monitored. Gas monitor sucked up groundwater immedietely, resting for 10 minutes before returning to 0.0.



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	11/01/2024	Ground conditions:	Wet underfoot.	Recorded by:	SW
Time at start:	11:13 AM	Weather conditions:	Mixture of overcast and sunny spots.	Pressure trend:	Rising.
Time at finish:	2:44 PM	Air Temperature (°C):	4	Monitor serial no:	G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	0.08	NR	4.23	NR	NR	NR	NR	NR	NR	NR	NR	NR	-0.4	NR	Groundwater level above top of standpipe, gas readings not taken.
WS103	0.30	0.17	4.27	0.1	2.7	3.9	0.1	2.7	4.1	0	0	1026	-0.4	0.0	
WS104	0.33	0.22	4.21	0.1	5.7	13.3	0.1	5.7	13.3	2	0	1032	-0.9	0.0	
WS105	0.53	0.40	4.24	0.1	4.3	15.8	0.1	4.3	15.7	2	0	1032	-2.0	0.0	
WS107	3.64	3.49	4.23	0.0	5.8	0.3	0.0	5.8	0.3	0	0	1032	-5.2	0.0	
WS109	1.40	1.27	4.22	0.1	7.8	9.3	0.1	8.0	9.0	0	0	1031	-0.4	0.0	
WS111	1.19	1.07	4.23	0.0	8.4	6.5	0.1	10.9	5.9	0	1	1031	-2.6	0.0	
WS113	0.38	0.26	4.21	0.0	5.0	16.8	0.0	7.7	16.8	2	0	1032	-3.4	0.0	
WS114	0.96	0.81	3.86	0.0	1.0	20.8	0.0	1.0	20.8	1	0	1033	-6.1	0.0	
WS115	0.16	0.04	4.21	0.0	0.1	22.0	0.0	0.5	21.6	0	0	1032	-0.5	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	11/01/2024	Ground conditions:	Wet underfoot.	Recorded by:	SW
Time at start:	11:13 AM	Weather conditions:	Mixture of overcast and sunny spots.	Pressure trend:	Rising.
Time at finish:	2:44 PM	Air Temperature (°C):	4	Monitor serial no:	G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	0.63	0.50	4.22	0.1	3.0	19.4	0.1	3.0	19.3	2	0	1032	-2.0	0.0	Groundwater level above top of standpipe, gas readings not taken.
WS117	0.15	0.04	2.73	0.1	5.3	21.5	0.2	0.4	21.5	6	0	1032	-0.4	0.0	
WS118	0.31	0.22	1.67	0.1	1.7	12.8	0.1	1.7	12.8	2	0	1032	-5.5	0.0	
WS119	0.07	NR	4.03	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	14/02/2024	Ground conditions:	Wet, waterlogged in places	Recorded by:	SW
Time at start:	10:32 AM	Weather conditions:	Overcast, breezy	Pressure trend:	Rising
Time at finish:	1:21 PM	Air Temperature (°C):	13	Monitor serial no:	G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	0.02	NR	4.22	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Hole flooded to above pipe level, pipe full of water
WS103	0.10	NR	4.27	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Hole flooded to above pipe level, pipe full of water
WS104	0.35	0.23	4.20	0.0	4.6	17.5	0.1	4.6	17.5	3	0	1007	-0.7	0.0	
WS105	0.55	0.41	4.24	0.0	4.1	15.8	0.0	4.1	15.8	2	0	1007	-0.9	0.0	
WS107	3.87	3.75	4.22	0.0	5.4	0.1	0.0	5.4	0.1	0	0	1006	0.2	0.0	
WS109	0.98	0.85	4.21	0.0	7.2	8.7	0.0	7.2	8.7	0	0	1006	16.6	0.0	
WS111	1.17	1.03	4.25	0.0	7.5	7.8	0.0	8.6	5.6	1	1	1006	5.7	0.0	
WS113	0.33	0.21	4.20	0.0	3.9	19.5	0.0	3.9	19.4	2	0	1007	2.3	0.0	
WS114	0.92	0.77	3.86	0.0	1.4	19.7	0.0	1.4	19.6	0	0	1007	2.7	0.0	
WS115	0.16	0.04	4.22	0.0	4.2	14.3	0.0	4.2	14.3	2	0	1007	-0.7	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	14/02/2024	Ground conditions:	Wet, waterlogged in places	Recorded by:	SW
Time at start:	10:32 AM	Weather conditions:	Overcast, breezy	Pressure trend:	Rising
Time at finish:	1:21 PM	Air Temperature (°C):	13	Monitor serial no:	G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	1.05	0.93	4.22	0.0	3.3	14.8	0.0	3.3	13.7	2	0	1006	6.0	0.0	Hole flooded to above pipe level, pipe full of water
WS117	0.16	NR	2.72	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
WS118	0.39	0.29	1.65	0.0	1.5	15.9	0.0	1.5	15.9	3	0	1007	-2.8	0.0	
WS119	0.05	NR	4.03	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Hole flooded to above pipe level, pipe full of water



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	14/03/2024	Ground conditions:	Wet underfoot, occasionally dry in higher areas	Recorded by:	SW
Time at start:	11:25 AM	Weather conditions:	Overcast and breezy, with occasional rain	Pressure trend:	Falling
Time at finish:	2:53 PM	Air Temperature (°C):	12	Monitor serial no:	G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	0.05	NR	4.22	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Hole flooded to above pipe level, pipe full of water
WS103	0.10	NR	4.26	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Hole flooded to above pipe level, pipe full of water
WS104	0.36	0.23	4.21	0.1	4.5	17.8	0.1	4.5	17.8	2	0	1000	-0.1	0.0	
WS105	0.52	0.38	4.25	0.1	4.2	11.5	0.1	4.2	10.0	2	0	999	-0.3	0.0	
WS107	3.99	3.84	4.22	0.1	5.6	0.1	0.1	5.6	0.1	0	0	999	8.1	0.0	
WS109	0.85	0.73	4.21	0.1	7.4	12.8	0.1	7.4	12.8	1	0	1000	11.0	0.0	
WS111	1.00	0.87	4.23	0.1	4.6	17.7	0.1	4.6	17.7	1	15	999	12.1	0.0	
WS113	0.35	0.22	4.22	0.1	3.3	18.7	0.1	3.3	18.7	1	0	1000	2.0	0.0	
WS114	0.94	0.79	3.80	0.1	1.4	20.1	0.1	1.4	20.0	0	0	1000	-0.5	0.0	
WS115	0.14	0.04	4.21	0.1	5.0	16.4	0.1	5.0	16.4	2	0	1000	0.1	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	14/03/2024	Ground conditions:	Wet underfoot, occasionally dry in higher areas	Recorded by:	SW
Time at start:	11:25 AM	Weather conditions:	Overcast and breezy, with occasional rain	Pressure trend:	Falling
Time at finish:	2:53 PM	Air Temperature (°C):	12	Monitor serial no:	G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	0.93	0.80	4.22	0.1	4.0	15.8	0.2	4.0	15.8	1	0	998	9.0	0.0	Hole flooded to above pipe level, pipe full of water
WS117	0.09	NR	2.72	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
WS118	0.30	0.18	1.65	0.1	1.2	18.8	0.1	1.3	18.8	2	0	999	0.0	0.0	
WS119	0.04	NR	4.00	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Hole flooded to above pipe level, pipe full of water



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	10/04/2024	Ground conditions:	Wet, waterlogged in places	Recorded by:	SW
Time at start:	11:12 AM	Weather conditions:	Overcast, intermittent rain throughout day	Pressure trend:	Rising.
Time at finish:	3:11 PM	Air Temperature (°C):	10	Monitor serial no:	G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	0.07	NR	4.22	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Hole flooded to above pipe level, pipe full of water
WS103	0.18	0.04	4.27	0.0	0.1	21.3	0.0	0.1	21.2	0	0	1018	0.0	0.0	
WS104	0.38	0.24	4.21	0.0	4.5	19.4	0.0	4.5	19.3	0	0	1018	0.4	0.0	
WS105	0.53	0.39	4.24	0.0	2.8	20.2	0.0	2.8	20.2	0	0	1018	-2.5	0.0	
WS107	4.06	3.92	4.11	0.0	7.1	0.1	0.0	7.1	0.1	1	0	1018	-2.6	0.0	
WS109	0.83	0.70	4.22	0.0	7.3	13.9	0.0	7.3	13.9	0	0	1018	0.3	0.0	
WS111	0.98	0.86	4.23	0.0	6.5	15.9	0.0	6.5	15.9	5	0	1018	-8.2	0.0	
WS113	0.32	0.19	4.22	0.0	2.3	20.2	0.0	2.3	20.2	0	0	1019	0.3	0.0	
WS114	0.95	0.80	3.85	0.0	0.4	21.3	0.0	0.6	21.3	0	0	1018	0.6	0.0	
WS115	0.14	0.04	4.21	0.0	6.9	15.5	0.0	6.9	15.5	0	0	1019	0.3	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	10/04/2024	Ground conditions:	Wet, waterlogged in places	Recorded by:	SW
Time at start:	11:12 AM	Weather conditions:	Overcast, intermittent rain throughout day	Pressure trend:	Rising.
Time at finish:	3:11 PM	Air Temperature (°C):	10	Monitor serial no:	G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	0.97	0.85	4.22	0.0	5.0	15.5	0.0	5.0	15.5	1	0	16	-3.7	0.0	Gas monitored but results invalid, water flooded interior of pipe 5 seconds after start
WS117	0.15	NR	2.73	0.0	0.2	21.2	0.0	0.2	21.2	0	0	21	NR	NR	
WS118	0.30	0.21	1.67	0.0	1.0	19.5	0.0	1.0	19.5	1	0	20	-5.0	0.0	
WS119	0.05	NR	4.02	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Hole flooded to above pipe level, pipe full of water



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date: 14/05/2024 Ground conditions: Wet. Recorded by: R Davies
 Time at start: 11:40 AM Weather conditions: Overcast, light winds and occasional light showers. Pressure trend: Falling.
 Time at finish: 3:25 PM Air Temperature (°C): 14 Monitor serial no: G501315

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	0.15	0.06	4.20	0.0	0.3	21.2	0.0	0.4	21.1	9	0	994	-1.0	0.0	Flow rate peaked at -1.7l/hr then increased steadily to -0.6l/hr after 2 minutes and still rising. Gas monitor sucked up groundwater after ~7 seconds. Flow rate peaked at -13.5l/hr then increased steadily to -1.9l/hr after 2 minutes and still rising. Gas monitor sucked up groundwater after ~40 seconds.
WS103	0.31	0.15	4.28	0.0	0.9	16.3	0.0	0.9	16.3	2	0	994	-1.8	0.0	
WS104	0.36	0.27	4.20	0.0	4.0	18.1	0.0	4.0	17.1	3	0	994	-0.2	0.0	Gas moniitor sucked up groundwater after ~90 seconds.
WS105	0.71	0.59	4.22	0.0	4.1	11.8	0.0	4.1	11.8	2	0	994	-6.1	0.0	Flow rate peaked at -14.0l/hr then steadily increased to -6.1l/hr after 2 minutues and still rising.
WS107	2.37	2.26	4.24	0.1	6.8	0.9	0.1	6.8	0.9	0	0	993	0.0	0.0	Unable to located borehole.
WS109	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
WS111	1.70	1.58	4.23	0.0	13.7	1.7	0.0	14.4	1.7	1	0	993	0.0	0.0	
WS113	0.24	0.06	4.21	0.0	2.5	18.3	0.0	2.5	18.3	1	1	993	0.0	NR	Gas monitor sucked up groundwater after ~60 seconds.
WS114	1.03	0.89	3.82	0.0	5.7	14.0	0.0	5.7	13.9	1	1	994	0.0	0.0	
WS115	0.21	0.08	4.21	0.0	0.1	15.6	0.0	6.5	5.8	2	0	994	-0.3	NR	Flow rate peaked at -10.0l/hr then steadily increased to -0.3l/hr after 2 minutues and still rising.

Gas Monitoring Record				Project Name: Forest Farm, Chippenham Client: Gleeson Land Project No: BRD2483											
				Date: 14/05/2024				Ground conditions: Wet.				Recorded by: R Davies			
				Time at start: 11:40 AM				Weather conditions: Overcast, light winds and occasional light showers.				Pressure trend: Falling.			
Time at finish: 3:25 PM				Air Temperature (°C): 14				Monitor serial no: G501315							
The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station. CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.															
Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	1.41	1.27	4.24	0.0	8.2	11.4	0.0	8.2	11.3	1	0	993	-0.1	0.0	Gas monitor sucked up groundwater after ~110 seconds. Flow rate peaked at -9.4l/hr then increased steadily to -4.5l/hr after 2 minutes and still rising. Gas monitor sucked up groundwater after ~60 seconds.
WS117	0.30	0.16	2.73	0.0	1.2	20.2	0.0	1.3	20.1	4	0	994	0.0	NR	
WS118	0.42	0.31	1.66	0.0	0.8	19.9	0.0	0.8	19.7	3	0	994	-4.5	NR	
WS119	0.63	0.46	4.06	0.0	0.1	21.3	0.0	0.2	21.1	1	0	994	-0.1	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date: 11/07/2024

Ground conditions: Dry

Recorded by: I Barrett

Time at start: 9:30 AM

Weather conditions: Sunny

Pressure trend: Rising

Time at finish: 5:00 PM

Air Temperature (°C): 15

Monitor serial no: G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments		
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)			
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)						
WS101	0.21	0.11	4.21	0.1	2.8	11.8	0.1	2.8	11.8	3.0	0.0	1014	-2.7	0.1	Pump flow failed x2 10 secs in (shallow GW). Well bailed out to 1.98m.		
WS103	0.41	0.35	4.26	0.0	1.6	17.4	0.0	1.6	17.4	1.0	0.0	1014	-5.4	0.0		Gas monitor got water at 110 secs. Well bailed out to 3.09m.	
WS104	0.46	0.35	4.20	0.1	3.8	17.6	0.1	3.9	16.9	1.0	0.0	1014	-3.7	0.0			Well bailed out to 3.09m.
WS105	1.38	1.26	4.23	0.1	7.0	11.4	0.1	8.0	10.0	1.0	0.0	1014	0.0	0.0			
WS107	3.66	3.52	4.24	0.1	4.7	11.0	0.1	5.1	10.0	1.0	0.0	1014	0.2	0.0			
WS109	1.93	1.82	4.19	0.1	4.2	17.8	0.1	4.2	17.8	1.0	0.0	1014	0.0	0.2			
WS111	2.37	2.27	4.22	0.1	5.1	16.0	0.1	5.7	15.5	1.0	0.0	1014	0.0	0.3			
WS113	0.28	0.15	4.23	0.1	0.1	19.5	0.1	5.7	8.2	1.0	0.0	1014	-0.1	0.3	Gas monitor got water at 125 secs. Well bailed out to 3.37m.		
WS114	1.08	0.94	3.79	0.1	2.6	17.7	0.2	2.7	17.6	1.0	0.0	1014	0.2	0.2	Well bailed out to 1.09m - recharged very fast with clear water.		
WS115	1.23	1.10	4.17	0.1	1.3	19.4	0.1	1.3	19.2	1.0	0.0	1014	0.3	0.6			



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	11/07/2024	Ground conditions:	Dry	Recorded by:	I Barrett
Time at start:	09:30:00	Weather conditions:	Sunny	Pressure trend:	Rising
Time at finish:	17:00:00	Air Temperature (°C):	15	Monitor serial no:	G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	2.19	2.07	4.23	0.1	3.9	17.9	0.1	3.9	17.8	1.0	0.0	1013	0.1	0.6	Gas monitor got water at 90 secs. Well bailed out to 2.37m. Gas monitor hit water at 35 secs. Well bailed out to 1.45m. Well bailed out to 3.40m.
WS117	0.43	0.30	2.71	0.1	3.5	17.6	0.1	3.6	17.5	1.0	0.0	1013	-5.6	0.2	
WS118	0.67	0.57	1.65	0.1	0.1	21.0	0.2	0.1	21.0	1.0	0.0	1013	-2.1	0.9	
WS119	1.13	0.98	4.04	0.1	0.3	20.3	0.1	2.9	18.4	1.0	0.0	1013	0.3	0.7	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date: 25/07/2024 Ground conditions: Damp Recorded by: I Barrett
Time at start: 9:00 AM Weather conditions: Overcast, drizzly Pressure trend: Falling
Time at finish: 3:00 PM Air Temperature (°C): 18 Monitor serial no: G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	1.37	1.26	4.21	0.2	4.4	13.5	0.2	4.6	13.5	1.0	0.0	1006	0.1	0.0	
WS103	1.16	1.02	4.25	0.2	3.4	14.2	0.2	3.5	13.8	2.0	0.0	1006	6.9	0.1	
WS104	1.32	1.21	4.21	0.3	3.4	19.1	0.3	3.6	18.8	0.0	0.0	1007	0.0	0.0	
WS105	1.29	1.19	4.24	0.3	7.4	13.6	0.3	8.5	12.6	0.0	0.0	1007	0.0	0.0	
WS107	3.75	3.56	4.20	0.2	5.1	11.0	0.2	5.4	10.4	0.0	0.0	1007	0.1	0.0	
WS109	2.00	1.90	4.19	0.2	4.6	17.5	0.2	4.7	17.3	0.0	0.0	1007	0.5	0.0	
WS111	2.43	2.30	4.22	0.2	5.3	16.7	0.2	5.9	16.1	0.0	0.0	1007	0.0	0.0	
WS113	0.38	0.25	4.22	0.2	4.6	19.1	0.2	4.6	19.0	1.0	0.0	1007	15.9	0.0	
WS114	1.09	0.96	3.80	0.2	3.0	18.2	0.2	3.0	17.7	0.0	0.0	1007	0.0	0.0	
WS115	1.32	1.20	4.22	0.2	3.6	17.1	0.2	3.7	17.0	0.0	0.0	1007	-0.1	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	25/07/2024	Ground conditions:	Damp	Recorded by:	I Barrett
Time at start:	09:00:00	Weather conditions:	Overcast, drizzly	Pressure trend:	Falling
Time at finish:	15:00:00	Air Temperature (°C):	18	Monitor serial no:	G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	2.22	2.10	4.23	0.3	4.1	17.8	0.3	4.5	17.7	1.0	0.0	1005	-0.2	0.0	
WS117	1.04	0.89	2.71	0.3	3.6	18.4	0.3	3.7	18.0	2.0	0.0	1006	11.2	0.1	
WS118	1.06	0.95	1.66	0.2	0.5	20.3	0.2	0.5	20.1	1.0	0.0	1005	9.5	0.0	
WS119	1.42	1.26	4.03	0.3	3.0	18.9	0.3	3.0	18.6	1.0	0.0	1006	-0.2	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	05/08/2024	Ground conditions:	Damp	Recorded by:	I Barrett
Time at start:	8:30 AM	Weather conditions:	Overcast	Pressure trend:	Falling
Time at finish:	1:30 PM	Air Temperature (°C):	18	Monitor serial no:	G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS101	1.04	0.93	4.20	0.3	3.2	16.4	0.3	3.3	16.4	2.0	0.0	1008	8.8	0.0	Got water after 75 seconds.
WS103	1.09	0.96	4.25	0.2	1.7	19.1	0.2	1.7	19.1	1.0	0.0	1008	4.5	0.0	
WS104	1.12	1.01	4.19	0.2	2.2	19.5	0.2	2.2	19.5	1.0	0.0	1008	5.8	0.0	
WS105	1.49	1.36	4.23	0.3	6.5	16.0	0.3	7.4	15.1	0.0	0.0	1008	0.1	0.0	
WS107	3.88	3.74	4.22	0.3	4.6	13.1	0.3	5.0	12.1	0.0	0.0	1007	0.0	0.0	
WS109	2.09	1.98	4.20	0.3	4.1	17.8	0.3	4.1	17.6	0.0	0.0	1007	0.1	0.0	
WS111	2.47	2.37	4.21	0.3	4.8	17.0	0.3	5.1	16.8	0.0	0.0	1007	0.0	0.1	
WS113	0.33	0.19	4.22	0.3	6.1	17.8	0.3	6.1	17.7	1.0	0.0	1008	2.7	0.0	
WS114	1.07	0.97	3.77	0.3	2.0	18.7	0.3	2.0	18.6	0.0	0.0	1008	-0.1	0.0	
WS115	1.51	1.40	4.21	0.3	3.5	17.6	0.3	3.5	17.6	0.0	0.0	1008	0.6	0.0	



Gas Monitoring Record

Project Name: Forest Farm, Chippenham

Client: Gleeson Land

Project No: BRD2483

Date:	05/08/2024	Ground conditions:	Damp	Recorded by:	I Barrett
Time at start:	08:30:00	Weather conditions:	Overcast	Pressure trend:	Falling
Time at finish:	13:30:00	Air Temperature (°C):	18	Monitor serial no:	G501688

The gas monitoring equipment is a Geotech GA5000 portable analyser. As per manufacturers recommendations this is factory calibrated every six months and in addition BRD undertake calibration checks against bottled standard gases on at least a monthly basis. Gas monitor pump is run for three minutes unless otherwise stated and the steady readings are an average reading taken over this pump run time. Vapour monitoring equipment is miniRAE lite PGM-7350 Photo Ionisation Detector (PID) with 10.6 eV lamp calibrated for isobutylene. PID calibration check is performed on site against ambient air and also against a 100ppm isobutylene standard gas. Barometric pressure trend and ambient air temperature is recorded from weather websites at the nearest reported weather station.

CH₄ = Methane CO₂ = Carbon Dioxide O₂ = Oxygen H₂S = Hydrogen Sulphide CO = Carbon Monoxide NR = Not Recorded PID = Photo Ionisation Detector

GWL = Groundwater level measured from ground surface and top of standpipe. Base = Base of standpipe measured from ground surface.

Monitoring point				Gas Concentration								Pressure	Flow rate	Vapour	Comments
Borehole	GWL Ground (m)	GWL Pipe (m)	Base Ground (m)	Steady			Peak		Minimum	Peak		Baro - metric (mb)	Steady (l/hr)	PID (ppm)	
				CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)				
WS116	2.31	2.19	4.23	0.2	3.9	18.2	0.3	3.9	18.0	1.0	0.0	1007	-0.2	0.0	
WS117	0.94	0.85	2.68	0.2	3.0	18.6	0.3	3.0	18.6	2.0	0.0	1008	3.0	0.0	
WS118	1.07	0.98	1.64	0.2	1.4	18.5	0.2	1.4	18.5	1.0	0.0	1008	-3.1	0.0	
WS119	1.58	1.43	4.02	0.2	2.1	19.4	0.2	2.1	19.3	1.0	0.0	1008	-0.1	0.0	



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
Client: Gleeson Land
Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	24/10/2023	SW	4.21	-	0.56	0.46	-	-	
WS103	24/10/2023	SW	4.26	-	0.71	0.58	-	-	
WS104	24/10/2023	SW	4.20	-	0.80	0.69	-	-	
WS105	24/10/2023	SW	4.25	-	1.17	1.04	-	-	
WS107	24/10/2023	SW	4.20	-	Dry	Dry	-	-	
WS109	24/10/2023	SW	4.21	-	1.41	1.30	7.00	4.21	Purged until dry.
WS111	24/10/2023	SW	4.21	-	4.18	4.07	-	-	
WS113	24/10/2023	SW	4.20	-	0.39	0.27	-	-	
WS114	24/10/2023	SW	3.91	-	0.83	0.69	1.50	3.91	Purged until dry.
WS115	24/10/2023	SW	4.22	-	0.69	0.58	-	-	
WS116	24/10/2023	SW	4.22	-	4.21	4.09	-	-	
WS117	24/10/2023	SW	2.70	-	0.20	0.09	7.50	2.58	Purged until dry.
WS118	24/10/2023	SW	1.65	-	0.39	0.30	-	-	
WS119	24/10/2023	SW	4.03	-	0.15	Flooded	9.00	3.20	Groundwater level above top of standpipe.



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
 Client: Gleeson Land
 Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	30/10/2023	SW	-	-	-	-	-	-	Borehole flooded, unable to monitor.
WS103	30/10/2023	SW	4.27	-	0.51	0.37	-	-	
WS104	30/10/2023	SW	4.20	-	0.64	0.53	-	-	
WS105	30/10/2023	SW	4.24	-	1.09	0.97	-	-	
WS107	30/10/2023	SW	4.23	-	1.27	1.14	-	-	
WS109	30/10/2023	SW	4.21	-	1.10	0.99	-	-	
WS111	30/10/2023	SW	4.22	-	4.02	3.90	-	-	
WS113	30/10/2023	SW	4.21	-	0.29	0.19	-	-	
WS114	30/10/2023	SW	3.92	-	0.73	0.59	-	-	
WS115	30/10/2023	SW	4.22	-	0.24	0.13	-	-	
WS116	30/10/2023	SW	4.22	-	3.05	2.93	-	-	
WS117	30/10/2023	SW	2.71	-	0.23	0.12	-	-	
WS118	30/10/2023	SW	1.65	-	0.11	0.02	-	-	
WS119	30/10/2023	SW	4.04	-	0.10	Flooded	-	-	Groundwater level above top of standpipe.



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
 Client: Gleeson Land
 Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	07/11/2023	SW	4.21	-	0.05	-	-	-	Groundwater level above top of standpipe.
WS103	07/11/2023	SW	4.26	-	0.33	0.20	-	-	
WS104	07/11/2023	SW	4.20	-	0.32	0.21	-	-	
WS105	07/11/2023	SW	4.24	-	1.03	0.89	-	-	
WS107	07/11/2023	SW	4.22	-	2.36	2.23	-	-	
WS109	07/11/2023	SW	4.21	-	1.22	1.10	-	-	
WS111	07/11/2023	SW	4.22	-	3.14	3.03	-	-	
WS113	07/11/2023	SW	4.21	-	0.30	0.20	-	-	
WS114	07/11/2023	SW	3.92	-	0.82	0.65	-	-	
WS115	07/11/2023	SW	4.22	-	0.22	0.11	-	-	
WS116	07/11/2023	SW	4.21	-	1.34	1.22	-	-	
WS117	07/11/2023	SW	2.71	-	0.15	0.04	-	-	
WS118	07/11/2023	SW	1.66	-	0.14	0.04	-	-	
WS119	07/11/2023	SW	4.05	-	0.08	Flooded	-	-	Groundwater level above top of standpipe.



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
 Client: Gleeson Land
 Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	12/12/2023	RD	-	-	-	-	-	-	Borehole flooded.
WS103	12/12/2023	RD	-	-	-	-	-	-	Borehole flooded.
WS104	12/12/2023	RD	-	-	-	-	-	-	Borehole flooded.
WS105	12/12/2023	RD	4.25	-	0.50	0.36	-	-	
WS107	12/12/2023	RD	4.23	-	3.31	3.27	-	-	Borehole cover flooded, bailed out and monitored.
WS109	12/12/2023	RD	4.21	-	0.87	0.74	-	-	
WS111	12/12/2023	RD	4.22	-	1.03	0.94	-	-	
WS113	12/12/2023	RD	4.22	-	0.33	0.19	-	-	
WS114	12/12/2023	RD	3.93	-	0.74	0.58	-	-	
WS115	12/12/2023	RD	4.21	-	0.30	-0.01	-	-	No gas tap fitted, resting groundwater level above the top of the standpipe.
WS116	12/12/2023	RD	4.22	-	0.60	0.47	-	-	
WS117	12/12/2023	RD	-	-	-	-	-	-	Borehole flooded.
WS118	12/12/2023	RD	1.66	-	0.20	0.09	-	-	
WS119	12/12/2023	RD	4.02	-	0.08	Flooded	-	-	Groundwater level above top of standpipe.



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
 Client: Gleeson Land
 Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	11/01/2024	SW	4.23	-	0.08	Flooded	-	-	Groundwater level above top of standpipe.
WS103	11/01/2024	SW	4.27	-	0.30	0.17	-	-	
WS104	11/01/2024	SW	4.21	-	0.33	0.22	-	-	
WS105	11/01/2024	SW	4.24	-	0.53	0.40	-	-	
WS107	11/01/2024	SW	4.23	-	3.64	3.49	-	-	
WS109	11/01/2024	SW	4.22	-	1.40	1.27	-	-	
WS111	11/01/2024	SW	4.23	-	1.19	1.07	-	-	
WS113	11/01/2024	SW	4.21	-	0.38	0.26	-	-	
WS114	11/01/2024	SW	3.86	-	0.96	0.81	-	-	
WS115	11/01/2024	SW	4.21	-	0.16	0.04	-	-	
WS116	11/01/2024	SW	4.22	-	0.63	0.50	-	-	
WS117	11/01/2024	SW	2.73	-	0.15	0.04	-	-	
WS118	11/01/2024	SW	1.67	-	0.31	0.22	-	-	
WS119	11/01/2024	SW	4.03	-	0.07	Flooded	-	-	Groundwater level above top of standpipe.



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
 Client: Gleeson Land
 Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	14/02/2024	SW	4.22	-	0.02	Flooded	-	-	Groundwater level above top of standpipe.
WS103	14/02/2024	SW	4.27	-	0.10	Flooded	-	-	Groundwater level above top of standpipe.
WS104	14/02/2024	SW	4.20	-	0.35	0.23	-	-	
WS105	14/02/2024	SW	4.24	-	0.55	0.41	-	-	
WS107	14/02/2024	SW	4.22	-	3.87	3.75	-	-	
WS109	14/02/2024	SW	4.21	-	0.98	0.85	-	-	
WS111	14/02/2024	SW	4.25	-	1.17	1.03	-	-	
WS113	14/02/2024	SW	4.20	-	0.33	0.21	-	-	
WS114	14/02/2024	SW	3.86	-	0.92	0.77	-	-	
WS115	14/02/2024	SW	4.22	-	0.16	0.04	-	-	
WS116	14/02/2024	SW	4.22	-	1.05	0.93	-	-	
WS117	14/02/2024	SW	2.72	-	0.16	Flooded	-	-	Groundwater level above top of standpipe.
WS118	14/02/2024	SW	1.65	-	0.39	0.29	-	-	
WS119	14/02/2024	SW	4.03	-	0.05	Flooded	-	-	Groundwater level above top of standpipe.



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
Client: Gleeson Land
Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	14/03/2024	SW	4.22	-	0.05	Flooded	-	-	Groundwater level above top of standpipe.
WS103	14/03/2024	SW	4.26	-	0.10	Flooded	-	-	Groundwater level above top of standpipe.
WS104	14/03/2024	SW	4.21	-	0.36	0.23	-	-	
WS105	14/03/2024	SW	4.25	-	0.52	0.38	-	-	
WS107	14/03/2024	SW	4.22	-	3.99	3.84	-	-	
WS109	14/03/2024	SW	4.21	-	0.85	0.73	-	-	
WS111	14/03/2024	SW	4.23	-	1.00	0.87	-	-	
WS113	14/03/2024	SW	4.22	-	0.35	0.22	-	-	
WS114	14/03/2024	SW	3.80	-	0.94	0.79	-	-	
WS115	14/03/2024	SW	4.21	-	0.14	0.04	-	-	
WS116	14/03/2024	SW	4.22	-	0.93	0.80	-	-	
WS117	14/03/2024	SW	2.72	-	0.09	Flooded	-	-	Groundwater level above top of standpipe.
WS118	14/03/2024	SW	1.65	-	0.30	0.18	-	-	
WS119	14/03/2024	SW	4.00	-	0.04	Flooded	-	-	Groundwater level above top of standpipe.



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
 Client: Gleeson Land
 Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	10/04/2024	SW	4.22	-	0.07	Flooded	-	-	Groundwater level above top of standpipe.
WS103	10/04/2024	SW	4.27	-	0.18	0.04	-	-	
WS104	10/04/2024	SW	4.21	-	0.38	0.24	-	-	
WS105	10/04/2024	SW	4.24	-	0.53	0.39	-	-	
WS107	10/04/2024	SW	4.11	-	4.06	3.92	-	-	
WS109	10/04/2024	SW	4.22	-	0.83	0.70	-	-	
WS111	10/04/2024	SW	4.23	-	0.98	0.86	-	-	
WS113	10/04/2024	SW	4.22	-	0.32	0.19	-	-	
WS114	10/04/2024	SW	3.85	-	0.95	0.80	-	-	
WS115	10/04/2024	SW	4.21	-	0.14	0.04	-	-	
WS116	10/04/2024	SW	4.22	-	0.97	0.85	-	-	Groundwater level above top of standpipe.
WS117	10/04/2024	SW	2.73	-	0.15	Flooded	-	-	
WS118	10/04/2024	SW	1.67	-	0.30	0.21	-	-	Groundwater level above top of standpipe.
WS119	10/04/2024	SW	4.02	-	0.05	Flooded	-	-	



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
 Client: Gleeson Land
 Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	14/05/2024	RD	4.20	NA	0.15	0.06	-	-	Unable to locate borehole
WS103	14/05/2024	RD	4.28	NA	0.31	0.15	-	-	
WS104	14/05/2024	RD	4.20	NA	0.36	0.27	-	-	
WS105	14/05/2024	RD	4.22	NA	0.71	0.59	-	-	
WS107	14/05/2024	RD	4.24	NA	2.37	2.26	-	-	
WS109	14/05/2024	RD	NA	NA	NA	NA	-	-	
WS111	14/05/2024	RD	4.23	NA	1.70	1.58	-	-	
WS113	14/05/2024	RD	4.21	NA	0.24	0.06	-	-	
WS114	14/05/2024	RD	3.82	NA	1.03	0.89	-	-	
WS115	14/05/2024	RD	4.21	NA	0.21	0.08	-	-	
WS116	14/05/2024	RD	4.24	NA	1.41	1.27	-	-	
WS117	14/05/2024	RD	2.73	NA	0.30	0.16	-	-	
WS118	14/05/2024	RD	1.66	NA	0.42	0.31	-	-	
WS119	14/05/2024	RD	4.06	NA	0.63	0.46	-	-	



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
Client: Gleeson Land
Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	11/07/2024	IB	4.21	NA	0.21	0.11	-	-	
WS103	11/07/2024	IB	4.26	NA	0.41	0.35	-	-	
WS104	11/07/2024	IB	4.20	NA	0.46	0.35	-	-	
WS105	11/07/2024	IB	4.23	NA	1.38	1.26	-	-	
WS107	11/07/2024	IB	4.24	NA	3.66	3.52	-	-	
WS109	11/07/2024	IB	4.19	NA	1.93	1.82	-	-	
WS111	11/07/2024	IB	4.22	NA	2.37	2.27	-	-	
WS113	11/07/2024	IB	4.23	NA	0.28	0.15	-	-	
WS114	11/07/2024	IB	3.79	NA	1.08	0.94	-	-	
WS115	11/07/2024	IB	4.17	NA	1.23	1.10	-	-	
WS116	11/07/2024	IB	4.23	NA	2.19	2.07	-	-	
WS117	11/07/2024	IB	2.71	NA	0.43	0.30	-	-	
WS118	11/07/2024	IB	1.65	NA	0.67	0.57	-	-	
WS119	11/07/2024	IB	4.04	NA	1.13	0.98	-	-	



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
Client: Gleeson Land
Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	25/07/2024	IB	4.21	NA	1.37	1.26	-	-	
WS103	25/07/2024	IB	4.25	NA	1.16	1.02	-	-	
WS104	25/07/2024	IB	4.21	NA	1.32	1.21	-	-	
WS105	25/07/2024	IB	4.24	NA	1.29	1.19	-	-	
WS107	25/07/2024	IB	4.20	NA	3.75	3.56	-	-	
WS109	25/07/2024	IB	4.19	NA	2.00	1.90	-	-	
WS111	25/07/2024	IB	4.22	NA	2.43	2.30	-	-	
WS113	25/07/2024	IB	4.22	NA	0.38	0.25	-	-	
WS114	25/07/2024	IB	3.80	NA	1.09	0.96	-	-	
WS115	25/07/2024	IB	4.22	NA	1.32	1.20	-	-	
WS116	25/07/2024	IB	4.23	NA	2.22	2.10	-	-	
WS117	25/07/2024	IB	2.71	NA	1.04	0.89	-	-	
WS118	25/07/2024	IB	1.66	NA	1.06	0.95	-	-	
WS119	25/07/2024	IB	4.03	NA	1.42	1.26	-	-	



Groundwater Monitoring Record

Project: Forest Farm, Chippenham
Client: Gleeson Land
Project No: BRD2483

Borehole name	Date	Monitored by (initials)	Borehole depth (m)	Qty free product detected (mm)	Groundwater level below ground surface (m)	Groundwater level below top of standpipe (m)	Amount purged (l)	Post purge groundwater level below top of standpipe (m)	Comments
WS101	05/08/2024	IB	4.20	NA	1.04	0.93	-	-	
WS103	05/08/2024	IB	4.25	NA	1.09	0.96	-	-	
WS104	05/08/2024	IB	4.19	NA	1.12	1.01	-	-	
WS105	05/08/2024	IB	4.23	NA	1.49	1.36	-	-	
WS107	05/08/2024	IB	4.22	NA	3.88	3.74	-	-	
WS109	05/08/2024	IB	4.20	NA	2.09	1.98	-	-	
WS111	05/08/2024	IB	4.21	NA	2.47	2.37	-	-	
WS113	05/08/2024	IB	4.22	NA	0.33	0.19	-	-	
WS114	05/08/2024	IB	3.77	NA	1.07	0.97	-	-	
WS115	05/08/2024	IB	4.21	NA	1.51	1.40	-	-	
WS116	05/08/2024	IB	4.23	NA	2.31	2.19	-	-	
WS117	05/08/2024	IB	2.68	NA	0.94	0.85	-	-	
WS118	05/08/2024	IB	1.64	NA	1.07	0.98	-	-	
WS119	05/08/2024	IB	4.02	NA	1.58	1.43	-	-	

APPENDIX 3



Rob Davies
BRD Environmental Ltd
Hawthorne Villa
1 Old Parr Road
Banbury
Oxfordshire
OX16 5HT

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-13247

Site Reference: Land at Forest Farm, Chippenham

Project / Job Ref: BRD2483

Order No: None Supplied

Sample Receipt Date: 25/10/2023

Sample Scheduled Date: 25/10/2023

Report Issue Number: 3

Reporting Date: 09/11/2023

Authorised by:

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.
This report supersedes 23-13247, issue no.2.

Reason for Re-Issue:
Sample Depth corrected

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.



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



Soil Analysis Certificate						
DETS Report No: 23-13247	Date Sampled	16/10/23	16/10/23	17/10/23	17/10/23	17/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chippenham	TP / BH No	TP101	TP102	TP110	TP111	TP113
Project / Job Ref: BRD2483	Additional Refs	J2	J1	J1	J2	J1
Order No: None Supplied	Depth (m)	0.50	0.10	0.20	0.50	0.20
Reporting Date: 09/11/2023	DETS Sample No	682183	682184	682185	682186	682187

Determinand	Unit	RL	Accreditation				
Asbestos Quantification ^(S)	%	< 0.001	ISO17025				
pH	pH Units	N/a	MCERTS		7.7	6.4	6.4
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS		106	24	15
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS		0.11	0.02	0.01
Organic Matter (SOM)	%	< 0.1	MCERTS		11.8	4.2	6.7
Arsenic (As)	mg/kg	< 2	MCERTS	13	9	6	5
Cadmium (Cd)	mg/kg	< 0.2	MCERTS		0.4	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS		24	10	10
Chromium (hexavalent)	mg/kg	< 2	NONE		< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS		22	11	11
Lead (Pb)	mg/kg	< 3	MCERTS		33	22	19
Mercury (Hg)	mg/kg	< 1	MCERTS		1.6	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS		14	8	9
Selenium (Se)	mg/kg	< 2	MCERTS		< 2	< 2	< 2
Zinc (Zn)	mg/kg	< 3	MCERTS		95	48	47

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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



Soil Analysis Certificate					
DETS Report No: 23-13247	Date Sampled	17/10/23	17/10/23	17/10/23	18/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chippenham	TP / BH No	TP113	TP117	TP118	TP121
Project / Job Ref: BRD2483	Additional Refs	J2	J1	J1	J2
Order No: None Supplied	Depth (m)	0.70	0.10	0.10	0.50
Reporting Date: 09/11/2023	DETS Sample No	682188	682189	682190	682191

Determinand	Unit	RL	Accreditation					
Asbestos Quantification ^(S)	%	< 0.001	ISO17025					< 0.001
pH	pH Units	N/a	MCERTS		6.7	6.9	6.8	7.6
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS		18	12	81	45
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS		0.02	0.01	0.08	0.04
Organic Matter (SOM)	%	< 0.1	MCERTS		5.8	4.7	4.9	3
Arsenic (As)	mg/kg	< 2	MCERTS	9	10	6	8	10
Cadmium (Cd)	mg/kg	< 0.2	MCERTS		0.3	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS		15	10	13	14
Chromium (hexavalent)	mg/kg	< 2	NONE		< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS		25	21	27	13
Lead (Pb)	mg/kg	< 3	MCERTS		79	196	44	26
Mercury (Hg)	mg/kg	< 1	MCERTS		1.1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS		10	6	9	11
Selenium (Se)	mg/kg	< 2	MCERTS		< 2	< 2	< 2	< 2
Zinc (Zn)	mg/kg	< 3	MCERTS		83	60	58	56

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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



Soil Analysis Certificate						
DETS Report No: 23-13247	Date Sampled	18/10/23	18/10/23	18/10/23	18/10/23	19/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chippenham	TP / BH No	TP122	TP124	TP124	TP127	TP129
Project / Job Ref: BRD2483	Additional Refs	J3	J1	J4	J1	J1
Order No: None Supplied	Depth (m)	0.85	0.10	1.10	0.10	0.20
Reporting Date: 09/11/2023	DETS Sample No	682193	682194	682195	682196	682197

Determinand	Unit	RL	Accreditation					
Asbestos Quantification ^(S)	%	< 0.001	ISO17025			< 0.001		
pH	pH Units	N/a	MCERTS	7.6	7.3	7.7	5.8	7.1
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	37	21	201	29	17
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.04	0.02	0.20	0.03	0.02
Organic Matter (SOM)	%	< 0.1	MCERTS	5	5.6	0.6	8.5	8.4
Arsenic (As)	mg/kg	< 2	MCERTS	20	18	5	13	11
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.6	0.3	< 0.2	0.2	0.3
Chromium (Cr)	mg/kg	< 2	MCERTS	18	22	9	26	19
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	24	18	7	18	24
Lead (Pb)	mg/kg	< 3	MCERTS	40	19	11	45	71
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	25	23	8	9	11
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Zinc (Zn)	mg/kg	< 3	MCERTS	136	93	29	72	98

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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



Soil Analysis Certificate					
DETS Report No: 23-13247	Date Sampled	19/10/23	19/10/23	19/10/23	19/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chippenham	TP / BH No	TP129	TP131	TP134	TP136
Project / Job Ref: BRD2483	Additional Refs	J2	J2	J1	J1
Order No: None Supplied	Depth (m)	0.70	0.60	0.20	0.10
Reporting Date: 09/11/2023	DETS Sample No	682198	682199	682200	682201

Determinand	Unit	RL	Accreditation					
Asbestos Quantification ^(S)	%	< 0.001	ISO17025			< 0.001		
pH	pH Units	N/a	MCERTS	7.4	6.9	7.7	6.3	6.3
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	32	16	12	11	11
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.03	0.02	0.01	0.01	0.01
Organic Matter (SOM)	%	< 0.1	MCERTS	0.9	0.6	4.8	5.7	5.8
Arsenic (As)	mg/kg	< 2	MCERTS	8	10	17	6	7
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	< 0.2	0.5	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	24	20	11	11	11
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	15	17	29	10	11
Lead (Pb)	mg/kg	< 3	MCERTS	11	14	170	22	23
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	13	20	17	7	7
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Zinc (Zn)	mg/kg	< 3	MCERTS	59	55	283	51	58

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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



Soil Analysis Certificate						
DETS Report No: 23-13247	Date Sampled	20/10/23	16/10/23	16/10/23	17/10/23	17/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chippenham	TP / BH No	TP142	WS104	WS105	WS107	WS110
Project / Job Ref: BRD2483	Additional Refs	J2	J1	J2	J1	J1
Order No: None Supplied	Depth (m)	0.60	0.10	0.30	0.10	0.10
Reporting Date: 09/11/2023	DETS Sample No	682203	682204	682205	682206	682207

Determinand	Unit	RL	Accreditation					
Asbestos Quantification ^(S)	%	< 0.001	ISO17025					
pH	pH Units	N/a	MCERTS	6.8	6.7	7.4	6.3	
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	19	11	< 10	10	
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.02	0.01	< 0.01	0.01	
Organic Matter (SOM)	%	< 0.1	MCERTS	0.8	11.4	2.7	6.4	
Arsenic (As)	mg/kg	< 2	MCERTS	9	10	9	9	9
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	0.2	< 0.2	0.2	
Chromium (Cr)	mg/kg	< 2	MCERTS	17	20	22	14	
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	
Copper (Cu)	mg/kg	< 4	MCERTS	17	25	14	13	
Lead (Pb)	mg/kg	< 3	MCERTS	10	50	23	42	
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	
Nickel (Ni)	mg/kg	< 3	MCERTS	8	13	10	8	
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Zinc (Zn)	mg/kg	< 3	MCERTS	40	96	56	61	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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



Soil Analysis Certificate						
DETS Report No: 23-13247	Date Sampled	17/10/23	18/10/23	18/10/23	19/10/23	19/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chippenham	TP / BH No	WS110	WS115	WS115	WS117	WS117
Project / Job Ref: BRD2483	Additional Refs	J2	J1	J2	J1	J2
Order No: None Supplied	Depth (m)	0.20	0.10	0.70	0.10	0.60
Reporting Date: 09/11/2023	DETS Sample No	682208	682209	682210	682211	682212

Determinand	Unit	RL	Accreditation					
Asbestos Quantification ^(S)	%	< 0.001	ISO17025		< 0.001			
pH	pH Units	N/a	MCERTS		6.4	7.0	7.6	7.8
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS		24	20	13	12
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS		0.02	0.02	0.01	0.01
Organic Matter (SOM)	%	< 0.1	MCERTS		4.4	1.2	6.1	1.5
Arsenic (As)	mg/kg	< 2	MCERTS	6	7	10	11	8
Cadmium (Cd)	mg/kg	< 0.2	MCERTS		0.2	< 0.2	0.3	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS		10	15	10	12
Chromium (hexavalent)	mg/kg	< 2	NONE		< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS		13	11	15	12
Lead (Pb)	mg/kg	< 3	MCERTS		37	12	28	12
Mercury (Hg)	mg/kg	< 1	MCERTS		< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS		7	8	10	11
Selenium (Se)	mg/kg	< 2	MCERTS		< 2	< 2	< 2	< 2
Zinc (Zn)	mg/kg	< 3	MCERTS		60	44	65	46

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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



Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 23-13247	Date Sampled	16/10/23	17/10/23	17/10/23	17/10/23	17/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chinnham	TP / BH No	TP102	TP110	TP113	TP117	TP118
Project / Job Ref: BRD2483	Additional Refs	J1	J1	J1	J1	J1
Order No: None Supplied	Depth (m)	0.10	0.20	0.20	0.10	0.10
Reporting Date: 09/11/2023	DETS Sample No	682184	682185	682187	682189	682190

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.17	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	0.20	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	0.18	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.15	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6



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



Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 23-13247	Date Sampled	18/10/23	18/10/23	18/10/23	18/10/23	18/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chinnham	TP / BH No	TP121	TP121	TP122	TP124	TP124
Project / Job Ref: BRD2483	Additional Refs	J1	J2	J3	J1	J4
Order No: None Supplied	Depth (m)	0.10	0.50	0.85	0.10	1.10
Reporting Date: 09/11/2023	DETS Sample No	682191	682192	682193	682194	682195

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.29	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.48	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.43	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.25	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.29	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.24	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.24	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	2.2	< 1.6	< 1.6



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



Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 23-13247	Date Sampled	18/10/23	19/10/23	19/10/23	19/10/23	19/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chinnham	TP / BH No	TP127	TP129	TP129	TP131	TP134
Project / Job Ref: BRD2483	Additional Refs	J1	J1	J2	J2	J1
Order No: None Supplied	Depth (m)	0.10	0.20	0.70	0.60	0.20
Reporting Date: 09/11/2023	DETS Sample No	682196	682197	682198	682199	682200

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.15
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.39
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.35
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.18
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.24
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.24
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.20
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	1.8



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



Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 23-13247	Date Sampled	19/10/23	20/10/23	20/10/23	16/10/23	16/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chinnham	TP / BH No	TP136	TP140	TP142	WS104	WS105
Project / Job Ref: BRD2483	Additional Refs	J1	J1	J2	J1	J2
Order No: None Supplied	Depth (m)	0.10	0.20	0.60	0.10	0.30
Reporting Date: 09/11/2023	DETS Sample No	682201	682202	682203	682204	682205

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6



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



Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 23-13247	Date Sampled	17/10/23	18/10/23	18/10/23	19/10/23	19/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chinnham	TP / BH No	WS107	WS115	WS115	WS117	WS117
Project / Job Ref: BRD2483	Additional Refs	J1	J1	J2	J1	J2
Order No: None Supplied	Depth (m)	0.10	0.10	0.70	0.10	0.60
Reporting Date: 09/11/2023	DETS Sample No	682206	682209	682210	682211	682212

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.15	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.59	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.56	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.23	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.40	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.36	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.19	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.35	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.24	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.19	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	3.3	< 1.6



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



Soil Analysis Certificate - TPH LQM Banded

DETS Report No: 23-13247	Date Sampled	18/10/23	18/10/23	19/10/23	19/10/23	19/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chippenham	TP / BH No	TP121	TP124	TP129	TP131	TP136
Project / Job Ref: BRD2483	Additional Refs	J2	J4	J2	J2	J1
Order No: None Supplied	Depth (m)	0.50	1.10	0.70	0.60	0.10
Reporting Date: 09/11/2023	DETS Sample No	682192	682195	682198	682199	682201

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C35 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic >C35 - C44 : EH_CU_1D_AL	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 30	NONE	< 30	< 30	< 30	< 30	< 30
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aromatic >C35 - C44 : EH_CU_1D_AR	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic (>C5 - C44) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 30	NONE	< 30	< 30	< 30	< 30	< 30
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 60	NONE	< 60	< 60	< 60	< 60	< 60



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



Soil Analysis Certificate - TPH LQM Banded

DETS Report No: 23-13247	Date Sampled	20/10/23	18/10/23	18/10/23	19/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chippenham	TP / BH No	TP142	WS115	WS115	WS117
Project / Job Ref: BRD2483	Additional Refs	J2	J1	J2	J2
Order No: None Supplied	Depth (m)	0.60	0.10	0.70	0.60
Reporting Date: 09/11/2023	DETS Sample No	682203	682209	682210	682212

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	
Aliphatic >C16 - C35 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	
Aliphatic >C35 - C44 : EH_CU_1D_AL	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 30	NONE	< 30	< 30	< 30	< 30	
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	
Aromatic >C35 - C44 : EH_CU_1D_AR	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	
Aromatic (>C5 - C44) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 30	NONE	< 30	< 30	< 30	< 30	
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Total	mg/kg	< 60	NONE	< 60	< 60	< 60	< 60	



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



Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 23-13247	Date Sampled	18/10/23	18/10/23	19/10/23	19/10/23	19/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chinnenham	TP / BH No	TP121	TP124	TP129	TP131	TP136
Project / Job Ref: BRD2483	Additional Refs	J2	J4	J2	J2	J1
Order No: None Supplied	Depth (m)	0.50	1.10	0.70	0.60	0.10
Reporting Date: 09/11/2023	DETS Sample No	682192	682195	682198	682199	682201

Determinand	Unit	RL	Accreditation						
Benzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
Toluene : HS 1D MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
p & m-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
o-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
MTBE : HS 1D MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5	< 5



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



Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 23-13247	Date Sampled	20/10/23	18/10/23	18/10/23	19/10/23	
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Land at Forest Farm, Chinnenham	TP / BH No	TP142	WS115	WS115	WS117	
Project / Job Ref: BRD2483	Additional Refs	J2	J1	J2	J2	
Order No: None Supplied	Depth (m)	0.60	0.10	0.70	0.60	
Reporting Date: 09/11/2023	DETS Sample No	682203	682209	682210	682212	

Determinand	Unit	RL	Accreditation					
Benzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene : HS 1D MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE : HS 1D MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5



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



Soil Analysis Certificate - Semi Volatile Organic Compounds (SVOC)						
DETS Report No: 23-13247	Date Sampled	19/10/23	20/10/23	18/10/23	19/10/23	
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Land at Forest Farm, Chinnerham	TP / BH No	TP129	TP142	WS115	WS117	
Project / Job Ref: BRD2483	Additional Refs	J2	J2	J2	J2	
Order No: None Supplied	Depth (m)	0.70	0.60	0.70	0.60	
Reporting Date: 09/11/2023	DETS Sample No	682198	682203	682210	682212	

Determinand	Unit	RL	Accreditation					
Phenol	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
1,2,4-Trichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	
2-Nitrophenol	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Nitrobenzene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
O-Cresol	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-chloroethoxy)methane	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-chloroethyl)ether	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dichlorophenol	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
2-Chlorophenol	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	
1,3-Dichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	
1,4-Dichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	
1,2-Dichlorobenzene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dimethylphenol	mg/kg	< 0.15	ISO17025	< 0.15	< 0.15	< 0.15	< 0.15	
Isophorone	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachloroethane	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
p-Cresol	mg/kg	< 0.15	MCERTS	< 0.15	< 0.15	< 0.15	< 0.15	
2,4,6-Trichlorophenol	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,5-Trichlorophenol	mg/kg	< 0.15	MCERTS	< 0.15	< 0.15	< 0.15	< 0.15	
2-Nitroaniline	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloro-3-methylphenol	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Methylnaphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorocyclopentadiene	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobutadiene	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	
2,6-Dinitrotoluene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Dimethyl phthalate	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2-Chloronaphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloroaniline	mg/kg	< 0.15	NONE	< 0.15	< 0.15	< 0.15	< 0.15	
4-Nitrophenol	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chlorophenyl phenyl ether	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
3-Nitroaniline	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Nitroaniline	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
4-Bromophenyl phenyl ether	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobenzene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
2,4-Dinitrotoluene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Diethyl phthalate	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Dibenzofuran	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Azobenzene	mg/kg	< 0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Dibutyl phthalate	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	
Carbazole	mg/kg	< 0.1	ISO17025	< 0.1	< 0.1	< 0.1	< 0.1	
bis(2-ethylhexyl)phthalate	mg/kg	< 0.15	ISO17025	< 0.15	< 0.15	< 0.15	< 0.15	
Benzyl butyl phthalate	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Di-n-octyl phthalate	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	



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

Soil Analysis Certificate - Organochlorine Pesticides						
DETS Report No: 23-13247	Date Sampled	16/10/23	17/10/23	17/10/23	17/10/23	17/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chinnenham	TP / BH No	TP102	TP110	TP113	TP117	TP118
Project / Job Ref: BRD2483	Additional Refs	J1	J1	J1	J1	J1
Order No: None Supplied	Depth (m)	0.10	0.20	0.20	0.10	0.10
Reporting Date: 09/11/2023	DETS Sample No	682184	682185	682187	682189	682190

Determinand	Unit	RL	Accreditation					
Aldrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
alpha-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
beta-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
cis-chlordane	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
delta-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dieldrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan A	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan B	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
gamma-HCH (Lindane)	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Heptachlor	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Heptachlor epoxide	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Hexachlorobenzene (HCB)	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Isodrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Methoxychlor	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
o,p' - DDD	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
o,p' - DDE	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
o,p' - DDT	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
p,p' - DDD	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
p,p' - DDE	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
p,p' - DDT	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
trans-chlordane	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Trifluralin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02



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

Soil Analysis Certificate - Organochlorine Pesticides						
DETS Report No: 23-13247	Date Sampled	19/10/23	20/10/23	17/10/23	18/10/23	19/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Land at Forest Farm, Chinnenham	TP / BH No	TP129	TP140	WS107	WS115	WS117
Project / Job Ref: BRD2483	Additional Refs	J1	J1	J1	J1	J1
Order No: None Supplied	Depth (m)	0.20	0.20	0.10	0.10	0.10
Reporting Date: 09/11/2023	DETS Sample No	682197	682202	682206	682209	682211

Determinand	Unit	RL	Accreditation					
Aldrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
alpha-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
beta-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
cis-chlordane	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
delta-HCH	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Dieldrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan A	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan B	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
gamma-HCH (Lindane)	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Heptachlor	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Heptachlor epoxide	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Hexachlorobenzene (HCB)	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Isodrin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Methoxychlor	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
o,p' - DDD	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
o,p' - DDE	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
o,p' - DDT	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
p,p' - DDD	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
p,p' - DDE	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
p,p' - DDT	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
trans-chlordane	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Trifluralin	mg/kg	< 0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02



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



Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 23-13247	
BRD Environmental Ltd	
Site Reference: Land at Forest Farm, Chippenham	
Project / Job Ref: BRD2483	
Order No: None Supplied	
Reporting Date: 09/11/2023	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
682183	TP101	J2	0.50	16.6	Brown clay
682184	TP102	J1	0.10	34.1	Brown sandy clay with vegetation
682185	TP110	J1	0.20	21.5	Brown clayey sand with vegetation
682186	TP111	J2	0.50	17.8	Brown clay
682187	TP113	J1	0.20	25	Brown clayey sand with vegetation
682188	TP113	J2	0.70	15.4	Brown clay
682189	TP117	J1	0.10	22.6	Brown clayey sand
682190	TP118	J1	0.10	25.7	Brown sandy clay with vegetation
682191	TP121	J1	0.10	25.5	Brown sandy clay
682192	TP121	J2	0.50	23.9	Brown sandy clay
682193	TP122	J3	0.85	31.9	Brown sandy clay
682194	TP124	J1	0.10	25.9	Brown sandy clay
682195	TP124	J4	1.10	10.5	Brown sandy clay with stones
682196	TP127	J1	0.10	37.6	Brown sandy clay with vegetation
682197	TP129	J1	0.20	31.9	Brown sandy clay with vegetation
682198	TP129	J2	0.70	21.5	Brown clay
682199	TP131	J2	0.60	15.8	Brown sandy clay
682200	TP134	J1	0.20	20.7	Brown sandy clay
682201	TP136	J1	0.10	29.4	Brown sandy clay with vegetation
682202	TP140	J1	0.20	27.3	Brown sandy clay with vegetation
682203	TP142	J2	0.60	16.3	Brown sandy clay
682204	WS104	J1	0.10	31.1	Brown sandy clay with vegetation
682205	WS105	J2	0.30	18.3	Brown clay
682206	WS107	J1	0.10	24.4	Brown sandy clay with vegetation
682207	WS110	J1	0.10	14.4	Brown sandy clay with vegetation
682208	WS110	J2	0.20	13.2	Brown sandy clay with vegetation
682209	WS115	J1	0.10	25.2	Brown sandy clay with vegetation
682210	WS115	J2	0.70	18.1	Brown clay
682211	WS117	J1	0.10	25.3	Brown sandy clay with vegetation
682212	WS117	J2	0.60	15.8	Brown clay

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{U/S}

Unsuitable Sample ^{U/S}



DETS Ltd
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: 23-13247

BRD Environmental Ltd

Site Reference: Land at Forest Farm, Chippenham

Project / Job Ref: BRD2483

Order No: None Supplied

Reporting Date: 09/11/2023

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 diphénylcarbazide 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 @ 450°C	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 (all: 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 (all: 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



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



List of HWOL Acronyms and Operators	
DETS Report No: 23-13247	
BRD Environmental Ltd	
Site Reference: Land at Forest Farm, Chippenham	
Project / Job Ref: BRD2483	
Order No: None Supplied	
Reporting Date: 09/11/2023	

Acronym	Description
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
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH 2D Total but with humics mathematically subtracted
#2	EH 2D Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS Total or EH_CU+HS Total

Det - Acronym
Benzene - HS 1D MS
Ethylbenzene - HS 1D MS
MTBE - HS 1D MS
TPH CWG - Aromatic >C16 - C21 - EH CU 1D AR
TPH LQM - Aliphatic >C10 - C12 - EH CU 1D AL
TPH LQM - Aliphatic >C12 - C16 - EH CU 1D AL
TPH LQM - Aliphatic >C16 - C35 - EH CU 1D AL
TPH LQM - Aliphatic >C35 - C44 - EH CU 1D AL
TPH LQM - Aliphatic >C5 - C44 - HS 1D MS+EH CU 1D AL
TPH LQM - Aliphatic >C5 - C6 - HS 1D MS AL
TPH LQM - Aliphatic >C6 - C8 - HS 1D MS AL
TPH LQM - Aliphatic >C8 - C10 - EH CU 1D AL
TPH LQM - Aromatic >C10 - C12 - EH CU 1D AR
TPH LQM - Aromatic >C12 - C16 - EH CU 1D AR
TPH LQM - Aromatic >C21 - C35 - EH CU 1D AR
TPH LQM - Aromatic >C35 - C44 - EH CU 1D AR
TPH LQM - Aromatic >C5 - C44 - HS 1D MS+EH CU 1D AR
TPH LQM - Aromatic >C5 - C7 - HS 1D MS AR
TPH LQM - Aromatic >C7 - C8 - HS 1D MS AR
TPH LQM - Aromatic >C8 - C10 - EH CU 1D AR
TPH LQM - Total >C5 - C44 - HS 1D MS+EH CU 1D Total
Toluene - HS 1D MS
m & p-xylene - HS 1D MS
o-Xylene - HS 1D MS



Nicola Kimber
BRD Environmental Ltd
Hawthorne Villa
1 Old Parr Road
Banbury
Oxfordshire
OX16 5HT

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-13248

Site Reference: Chippenham

Project / Job Ref: BRD2483

Order No: None Supplied

Sample Receipt Date: 25/10/2023

Sample Scheduled Date: 25/10/2023

Report Issue Number: 1

Reporting Date: 31/10/2023

Authorised by:

Kevin Old
Operations Director

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.



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



Soil Analysis Certificate						
DETS Report No: 23-13248	Date Sampled	17/10/23	18/10/23	16/10/23	17/10/23	19/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Chippenham	TP / BH No	TP110	TP119	WS104	WS107	WS118
Project / Job Ref: BRD2483	Additional Refs	D2	D2	D2	D2	D2
Order No: None Supplied	Depth (m)	1.20	1.50	1.70	2.40	1.50
Reporting Date: 31/10/2023	DETS Sample No	682213	682214	682215	682216	682217

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	6.9	6.5	4.5	4.2	7.2
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	< 200	< 200	82980	24820	474
Total Sulphate as SO ₄	%	< 0.02	MCERTS	< 0.02	< 0.02	8.30	2.48	0.05
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	16	12	2020	2020	382
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.02	0.01	2.02	2.02	0.38
Total Sulphur	%	< 0.02	NONE	< 0.02	< 0.02	3.08	0.85	0.03

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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



Soil Analysis Certificate						
DETS Report No: 23-13248	Date Sampled	17/10/23	19/10/23	19/10/23	19/10/23	20/10/23
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Chippenham	TP / BH No	TP116	TP129	TP129	TP130	TP138
Project / Job Ref: BRD2483	Additional Refs	D3	D3	D4	D3	D2
Order No: None Supplied	Depth (m)	2.20	2.10	3.00	2.50	1.80
Reporting Date: 31/10/2023	DETS Sample No	682218	682219	682220	682221	682222

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	4.3	4.2	5.6	7.3	7.8
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	22820	2778	3160	25490	553
Total Sulphate as SO ₄	%	< 0.02	MCERTS	2.28	0.28	0.32	2.55	0.06
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	481	269	825	1930	195
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.48	0.27	0.83	1.93	0.20
Total Sulphur	%	< 0.02	NONE	0.71	0.12	1.79	2.94	0.08

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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



Soil Analysis Certificate						
DETS Report No: 23-13248	Date Sampled	19/10/23	19/10/23			
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Chippenham	TP / BH No	WS116	WS119			
Project / Job Ref: BRD2483	Additional Refs	D2	D3			
Order No: None Supplied	Depth (m)	2.50	2.40			
Reporting Date: 31/10/2023	DETS Sample No	682223	682224			

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	MCERTS	7.6	8.1		
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	1755	1346		
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.18	0.13		
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	481	261		
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.48	0.26		
Total Sulphur	%	< 0.02	NONE	1.75	2.83		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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



Soil Analysis Certificate - Sample Descriptions

DETS Report No: 23-13248	
BRD Environmental Ltd	
Site Reference: Chippenham	
Project / Job Ref: BRD2483	
Order No: None Supplied	
Reporting Date: 31/10/2023	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
682213	TP110	D2	1.20	10.7	Brown sandy clay
682214	TP119	D2	1.50	13.8	Brown sandy clay
682215	WS104	D2	1.70	22.1	Brown clay
682216	WS107	D2	2.40	10.8	Brown sandy clay
682217	WS118	D2	1.50	15.3	Brown sandy clay
682218	TP116	D3	2.20	22.5	Brown sandy clay
682219	TP129	D3	2.10	22.1	Brown sandy clay
682220	TP129	D4	3.00	22	Grey clay
682221	TP130	D3	2.50	20.1	Grey clay
682222	TP138	D2	1.80	21.9	Brown sandy clay
682223	WS116	D2	2.50	12.2	Grey sandy clay
682224	WS119	D3	2.40	13.7	Grey clay

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



DETS Ltd
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: 23-13248

BRD Environmental Ltd

Site Reference: Chippenham

Project / Job Ref: BRD2483

Order No: None Supplied

Reporting Date: 31/10/2023

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 diphénylcarbazide 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 @ 450°C	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



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



List of HWOL Acronyms and Operators

DETS Report No: 23-13248

BRD Environmental Ltd

Site Reference: Chippenham

Project / Job Ref: BRD2483

Order No: None Supplied

Reporting Date: 31/10/2023

Acronym	Description
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
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH 2D Total but with humics mathematically subtracted
#2	EH 2D Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS Total or EH_CU+HS Total

Det - Acronym



Rob Davies
BRD Environmental Ltd
Hawthorne Villa
1 Old Parr Road
Banbury
Oxfordshire
OX16 5HT

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-13517

Site Reference: Forest Farm, Chippenham

Project / Job Ref: BRD2483

Order No: None Supplied

Sample Receipt Date: 01/11/2023

Sample Scheduled Date: 01/11/2023

Report Issue Number: 1

Reporting Date: 07/11/2023

Authorised by:

Steve Knight
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.



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



Water Analysis Certificate						
DETS Report No: 23-13517	Date Sampled	24/10/23	24/10/23	24/10/23	24/10/23	
BRD Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: Forest Farm, Chippenham	TP / BH No	WS109	WS114	WS117	WS119	
Project / Job Ref: BRD2483	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
Order No: None Supplied	Depth (m)	1.41	0.83	0.20	0.15	
Reporting Date: 07/11/2023	DETS Sample No	683309	683310	683311	683312	

Determinand	Unit	RL	Accreditation				
pH	pH Units	N/a	ISO17025	6.7	7.4	7.3	7.5
Sulphate as SO ₄	mg/l	< 1	ISO17025	204	46	844	59

Subcontracted analysis ^(S)

Insufficient sample ^{I/S}

Unsuitable Sample ^{U/S}



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



Water Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 23-13517

BRD Environmental Ltd

Site Reference: Forest Farm, Chippenham

Project / Job Ref: BRD2483

Order No: None Supplied

Reporting Date: 07/11/2023

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazine followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	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 liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	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 liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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



List of HWOL Acronyms and Operators

Acronym	Description
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
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH 2D Total but with humics mathematically subtracted
#2	EH 2D Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS Total or EH CU+HS Total

Det - Acronym



TEST REPORT
ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham
Serial No.	43728_1
Client: BRD Environmental Ltd BRD Environmental Ltd Hawthorne Villa 1 Old Parr Road Banbury Oxfordshire OX16 5HT	
Soil Property Testing Ltd 15, 16, 18 Halcyon Court, St Margaret's Way, Stukeley Meadows, Huntingdon, Cambridgeshire, PE29 6DG Tel: 01480 455579 Email: enquiries@soilpropertytesting.com Website: www.soilpropertytesting.com	
Samples Submitted By: BRD Environmental Ltd Samples Labelled: Chippenham	Approved Signatories: ☒ J.C. Garner B.Eng (Hons) FGS Technical Director & Quality Manager ☐ W. Johnstone Materials Lab Manager 
Date Received: 25/10/2023	Samples Tested Between: 25/10/2023 and 08/11/2023
Remarks: For the attention of Rob Davies Your Reference No: BRD2483	
Notes: 1 All remaining samples or remnants from this contract will be disposed of after 21 days from today, unless we are notified to the contrary. 2 Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. 3 Tests marked "NOT UKAS ACCREDITED" in this test report are not included in the UKAS Accreditation Schedule for this testing laboratory. 4 This test report may not be reproduced other than in full except with the prior written approval of the issuing laboratory. 5 The results within this report only relate to the items tested or sampled.	



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract			Chippenham																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Serial No.			43728_1										Target Date			08/11/2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Scheduled By			BRD Environmental Ltd																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Schedule Remarks																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Bore Hole No.	Type	Sample Ref.	Top Depth	Water Content (BS EN) Liquid/Plastic Limits Particle Size Distribution (BS1377)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham
Serial No.	43728_1

SUMMARY OF WATER CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Liquid-ity Index	Sample Preparation				Description	Class
									Method	Ret'd 0.425mm (%)	Corr'd W/C <0.425mm	Curing Time (hrs)		
TP104	1.40	D	2	26.6	60	22	38	0.12	From Natural	0 (A)		68	Firm mottled yellowish brown and bluish grey CLAY with rare calcareous aggregations	CH
TP110	0.80	D	1	24.8	45	18	27	0.25	From Natural	0 (A)		69	Firm mottled light greyish brown and yellowish brown silty CLAY with rare fine sand/silt pockets and recently active and decayed roots	CI
TP111	0.90	D	1	20.3	43	15	28	0.19	From Natural	0 (A)		69	Firm mottled yellowish brown and bluish grey CLAY with rare silt pockets and decayed roots	CI
TP117	2.40	D	4	21.1	44	16	28	0.18	From Natural	0 (A)		25	Firm greyish brown silty CLAY with rare yellow staining, weathered mudstone lithorelicts, decayed roots and selenite crystals	CI
TP129	0.90	D	1	34.8	57	22	35	0.37	From Natural	0 (A)		69	Soft mottled light brownish grey and brownish yellow CLAY with rare decayed roots	CH
TP135	1.70	D	2	19.7	40	14	26	0.22	From Natural	0 (A)		69	Firm mottled bluish grey and brownish yellow silty CLAY with rare fine sand/silt pockets	CI
TP136	2.10	D	3	18.7	37	14	23	0.20	From Natural	0 (A)		24	Firm dark grey silty CLAY with rare yellowish brown staining and silt pockets	CI
TP140	1.90	D	1	18.9	31	14	17	0.29	From Natural	0 (A)		25	Firm mottled brownish yellow and light bluish grey silty CLAY with rare fine sand/silt pockets	CL

Method Of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2:1990:4.2
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2:1990:3.2, 4.4, 5.3, 5.4
Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:

Table Notation: Ret'd 0.425mm: (A) = Assumed, (M) = Measured



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract		Chippenham												
Serial No.		43728_1												
SUMMARY OF WATER CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX														
Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasti- city Index (%)	Liquid- ity Index	Sample Preparation				Description	Class
									Method	Ret'd 0.425mm (%)	Corr'd W/C <0.425mm	Curing Time (hrs)		
WS109	0.90	D	1	18.4	46	18	28	0.01	From Natural	0 (A)		24	Stiff mottled greyish brown and brown silty CLAY with rare decayed roots	CI
WS109	2.10	D	3	17.6	45	18	27	-0.01	From Natural	0 (A)		24	Very stiff mottled yellowish brown and greyish brown silty CLAY with occasional yellow staining and rare decayed roots	CI
WS109	3.10	D	4	18.4	48	17	31	0.05	From Natural	0 (A)		24	Stiff mottled yellowish brown and grey silty CLAY with rare silt pockets and selenite crystals	CI
WS110	1.40	D	1	13.1	39	15	24	-0.08	From Natural	0 (A)		24	Very stiff mottled grey and orangish brown silty CLAY	CI
WS110	3.10	D	4	17.2	43	15	28	0.08	From Natural	0 (A)		28	Firm mottled yellowish brown and brownish grey silty CLAY with rare silt pockets and selenite crystals	CI
WS115	1.40	D	1	22.0	27	14	13	0.62	From Natural	0 (A)		29	Very soft mottled light bluish grey and yellowish brown silty CLAY with rare fine and medium sand pockets	CL
WS117	1.90	D	2	28.4	70	24	46	0.10	From Natural	0 (A)		24	Firm mottled orange, brown and very dark greyish brown CLAY	CH/CV
WS117	2.50	D	3	11.4	29	12	17	-0.04	Wet Sieved	33 (M)	17.0*	24	Firm very dark grey slightly sandy silty CLAY with frequent fossil/shell fragments from fine to coarse gravel size	CL
Method Of Preparation:		BS EN ISO: 17892-1: 2014 & BS 1377: Part 2:1990:4.2												
Method of Test:		BS EN ISO: 17892-1: 2014 & BS 1377: Part 2:1990:3.2, 4.4, 5.3, 5.4												
Type of Sample Key:		U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter												
Comments:		*Corrected water content assume material greater than 0.425mm is non-porous. See BS1377: Part 2: 1990 Clause 3 Note 1.												
Table Notation:		Ret'd 0.425mm: (A) = Assumed, (M) = Measured												



TEST REPORT

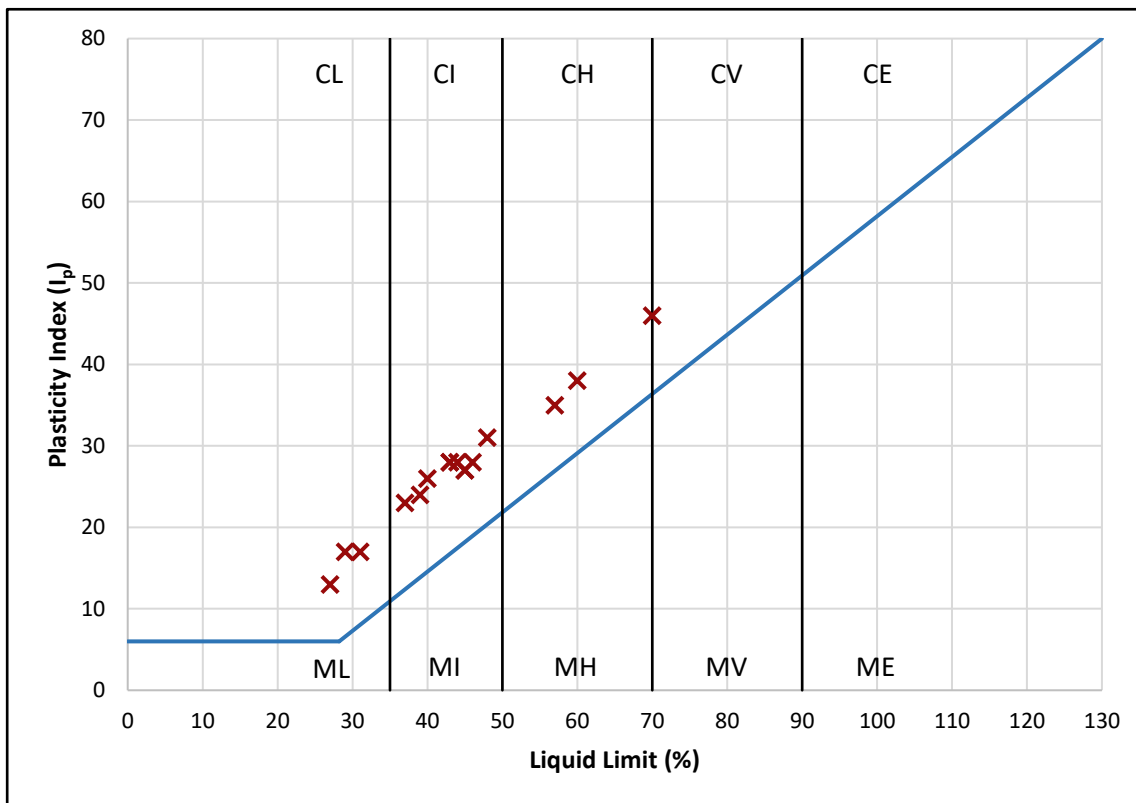
ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham
Serial No.	43728_1

PLOT OF PLASTICITY INDEX AGAINST LIQUID LIMIT USING CASAGRANDE CLASSIFICATION CHART

Plasticity				
Low	Medium	High	Very High	Extremely High



Plasticity Chart BS5930: 2015: Figure 8

High	NHBC Volume Change Potential
Medium	
Low	

Method of Preparation:	BS 1377: Part 2: 1990: 4.2
Method of Test:	BS1377: Part 2: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham						
Serial No.	43728_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample TypeReference		Water Content (W) %	Description	Remarks	
TP104	1.40	D	2	26.6	Firm mottled yellowish brown and bluish grey CLAY with rare calcareous aggregations		
PREPARATION					Liquid Limit	60 %	
Method of preparation					From natural	Plastic Limit	22 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	38 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.12
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time		68 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) 70 60 50 40 30 20 10 0 CL CI CH CV CE ML MI MH MV ME 0 10 20 30 40 50 60 70 80 90 100 110 120 Plasticity Chart BS5930: 2015: Figure 8 High Medium Low NHBC Volume Change Potential Liquid Limit %							
Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2							
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4							
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter							
Comments:							



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham						
Serial No.	43728_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
TP110	0.80	D	1	24.8	Firm mottled light greyish brown and yellowish brown silty CLAY with rare fine sand/silt pockets and recently active and decayed roots		
PREPARATION					Liquid Limit	45 %	
Method of preparation					From natural	Plastic Limit	18 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	27 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.25
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time		69 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (I_p) 70 60 50 40 30 20 10 0 0 10 20 30 40 50 60 70 80 90 100 110 120 CL CI CH CV CE ML MI MH MV ME Plasticity Chart BS5930: 2015: Figure 8 High Medium Low NHBC Volume Change Potential Liquid Limit %							
Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2							
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4							
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter							
Comments:							



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

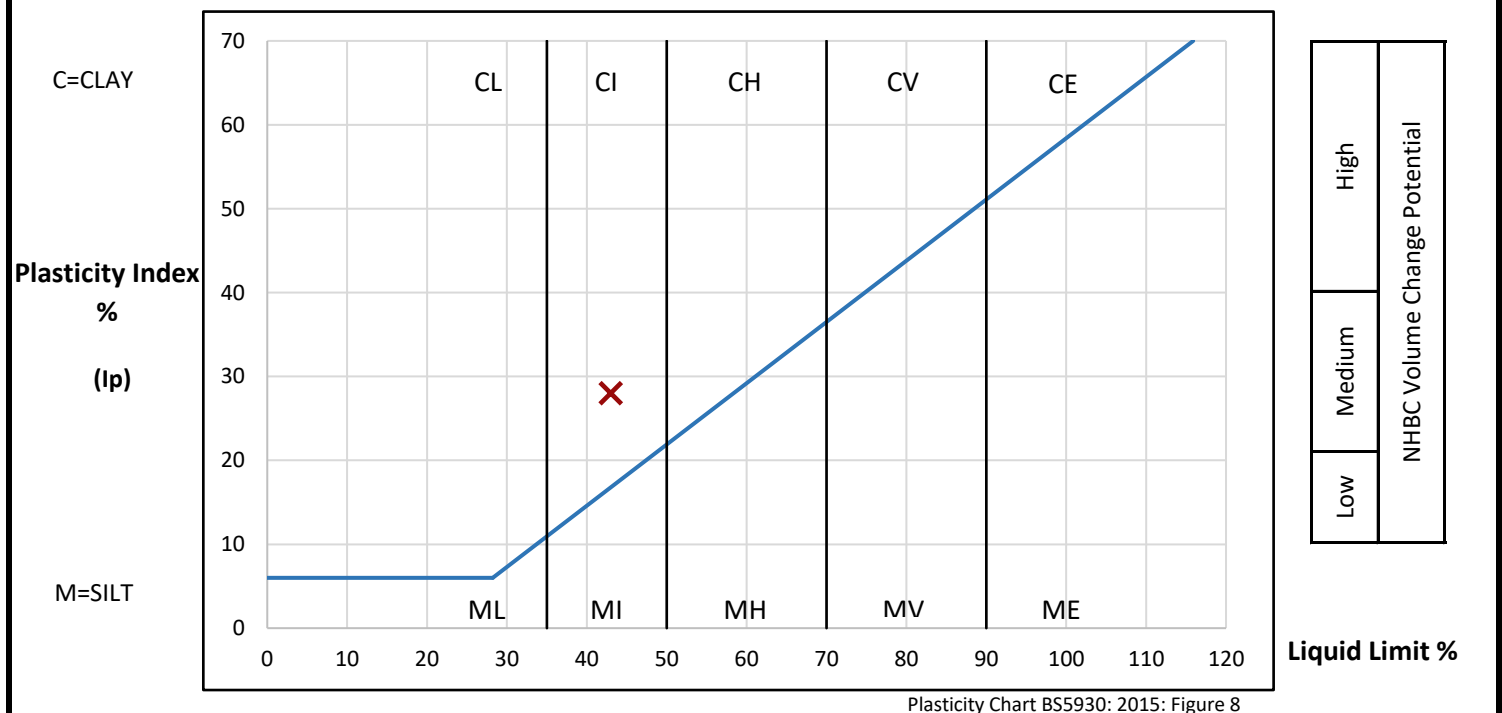


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
TP111	0.90	D	1	20.3	Firm mottled yellowish brown and bluish grey CLAY with rare silt pockets and decayed roots	

PREPARATION			Liquid Limit	43 %	
Method of preparation		From natural	Plastic Limit	15 %	
Sample retained 0.425mm sieve	(Assumed)	0 %	Plasticity Index	28 %	
Corrected water content for material passing 0.425mm			Liquidity Index	0.19	
Sample retained 2mm sieve	(Assumed)	0 %	NHBC Modified (I'p)	n/a	
Curing time	69 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham						
Serial No.	43728_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
TP117	2.40	D	4	21.1	Firm greyish brown silty CLAY with rare yellow staining, weathered mudstone lithorelicts, decayed roots and selenite crystals	Specimen dried at 50°C due to the presence of selenite.	
PREPARATION					Liquid Limit	44 %	
Method of preparation					From natural	Plastic Limit	16 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	28 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.18
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time		25 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (I_p) 70 60 50 40 30 20 10 0 0 10 20 30 40 50 60 70 80 90 100 110 120 CL CI CH CV CE ML MI MH MV ME Plasticity Chart BS5930: 2015: Figure 8 High Medium Low NHBC Volume Change Potential Liquid Limit %							
Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2							
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4							
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter							
Comments:							



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham						
Serial No.	43728_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
TP129	0.90	D	1	34.8	Soft mottled light brownish grey and brownish yellow CLAY with rare decayed roots		
PREPARATION					Liquid Limit	57 %	
Method of preparation					From natural	Plastic Limit	22 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	35 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.37
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time		69 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (I_p) 70 60 50 40 30 20 10 0 0 10 20 30 40 50 60 70 80 90 100 110 120 CL CI CH CV CE ML MI MH MV ME Plasticity Chart BS5930: 2015: Figure 8 High Medium Low NHBC Volume Change Potential Liquid Limit %							
Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2							
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4							
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter							
Comments:							



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham						
Serial No.	43728_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
TP135	1.70	D	2	19.7	Firm mottled bluish grey and brownish yellow silty CLAY with rare fine sand/silt pockets		
PREPARATION					Liquid Limit	40 %	
Method of preparation					From natural	Plastic Limit	14 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	26 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.22
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time		69 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) High Medium Low NHBC Volume Change Potential Liquid Limit %							

Plasticity Chart BS5930: 2015: Figure 8



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham						
Serial No.	43728_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
TP136	2.10	D	3	18.7	Firm dark grey silty CLAY with rare yellowish brown staining and silt pockets		
PREPARATION					Liquid Limit	37 %	
Method of preparation					From natural	Plastic Limit	14 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	23 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.20
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time			24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) High Medium Low NHBC Volume Change Potential Liquid Limit %							

Plasticity Chart BS5930: 2015: Figure 8



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

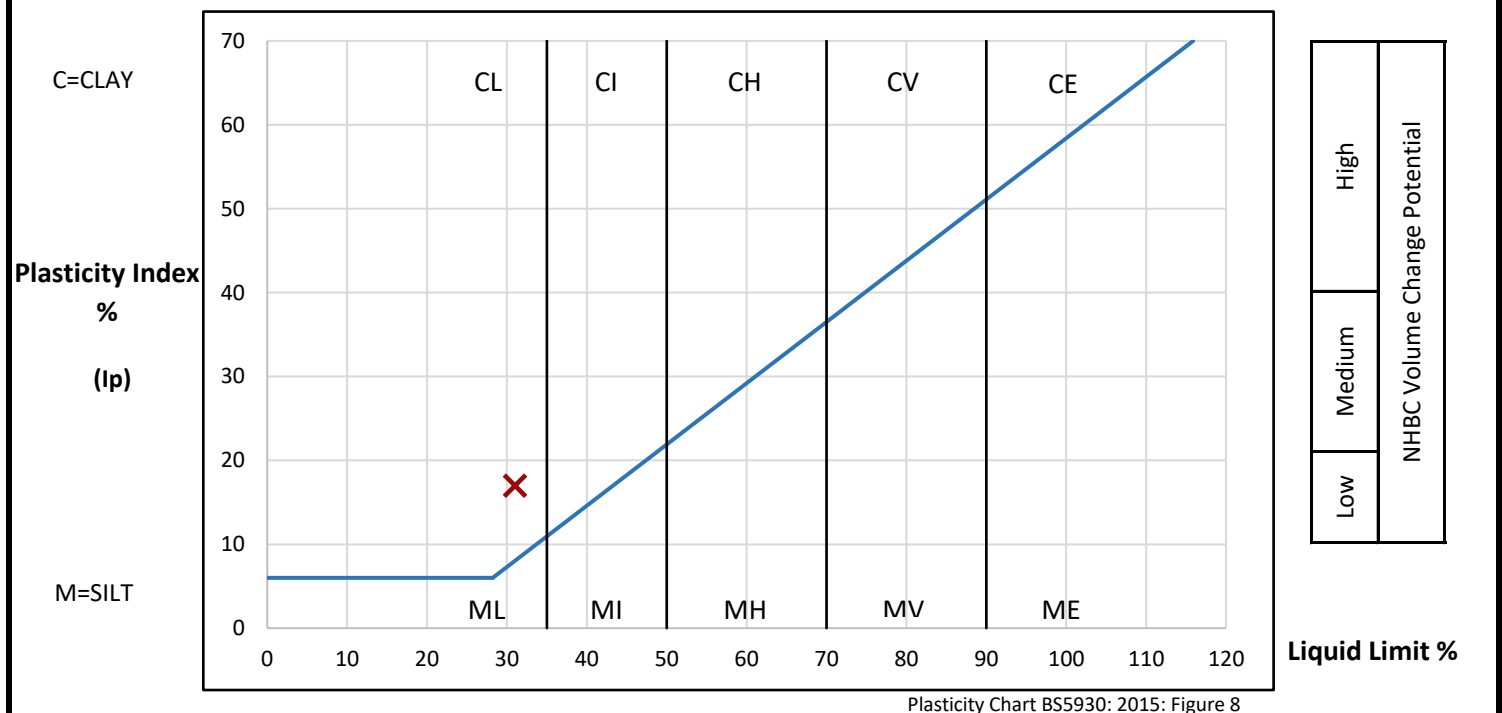


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
TP140	1.90	D	1	18.9	Firm mottled brownish yellow and light bluish grey silty CLAY with rare fine sand/silt pockets	

PREPARATION			Liquid Limit	31 %	
Method of preparation		From natural	Plastic Limit	14 %	
Sample retained 0.425mm sieve	(Assumed)	0 %	Plasticity Index	17 %	
Corrected water content for material passing 0.425mm			Liquidity Index	0.29	
Sample retained 2mm sieve	(Assumed)	0 %	NHBC Modified (I'p)	n/a	
Curing time	25 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
 Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
 Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

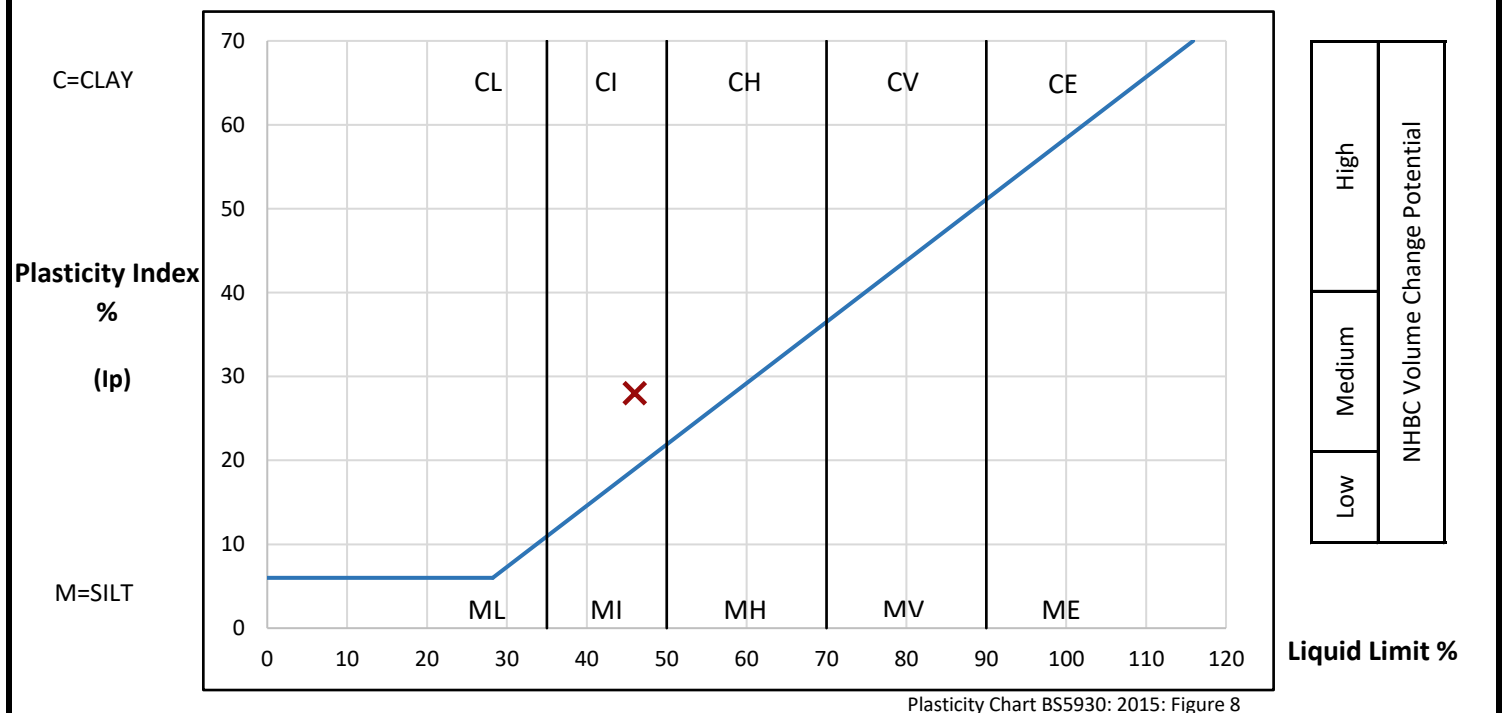


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
WS109	0.90	D	1	18.4	Stiff mottled greyish brown and brown silty CLAY with rare decayed roots	

PREPARATION			Liquid Limit	46 %
Method of preparation			From natural	Plastic Limit 18 %
Sample retained 0.425mm sieve (Assumed)			0 %	Plasticity Index 28 %
Corrected water content for material passing 0.425mm				Liquidity Index 0.01
Sample retained 2mm sieve (Assumed)			0 %	NHBC Modified (I'p) n/a
Curing time 24 hrs		Clay Content	Not analysed	Derived Activity Not analysed



Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
 Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
 Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham						
Serial No.	43728_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
WS109	2.10	D	3	17.6	Very stiff mottled yellowish brown and greyish brown silty CLAY with occasional yellow staining and rare decayed roots		
PREPARATION					Liquid Limit	45 %	
Method of preparation					From natural	Plastic Limit	18 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	27 %
Corrected water content for material passing 0.425mm						Liquidity Index	-0.01
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time			24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (I_p) High Medium Low NHBC Volume Change Potential Liquid Limit % Plasticity Chart BS5930: 2015: Figure 8							
Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2							
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4							
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter							
Comments:							



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

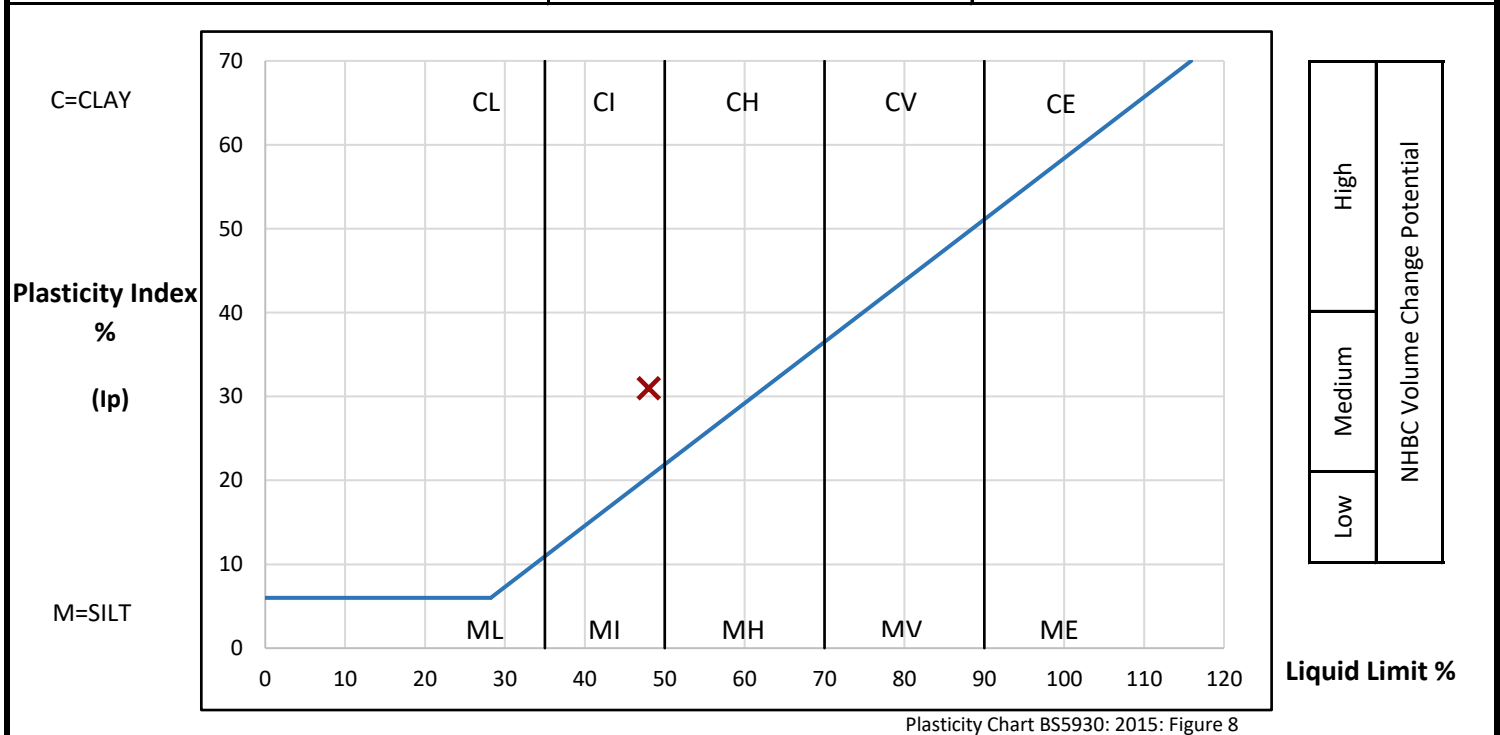


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
WS109	3.10	D	4	18.4	Stiff mottled yellowish brown and grey silty CLAY with rare silt pockets and selenite crystals	Specimen dried at 50°C due to the presence of selenite.

PREPARATION			Liquid Limit	48 %	
Method of preparation		From natural	Plastic Limit	17 %	
Sample retained 0.425mm sieve	(Assumed)	0 %	Plasticity Index	31 %	
Corrected water content for material passing 0.425mm			Liquidity Index	0.05	
Sample retained 2mm sieve		(Assumed)	0 %	NHBC Modified (I'p)	n/a
Curing time	24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham						
Serial No.	43728_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
WS110	1.40	D	1	13.1	Very stiff mottled grey and orangish brown silty CLAY		
PREPARATION					Liquid Limit	39 %	
Method of preparation					From natural	Plastic Limit	15 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	24 %
Corrected water content for material passing 0.425mm						Liquidity Index	-0.08
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time			24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) High Medium Low NHBC Volume Change Potential Liquid Limit %							

Plasticity Chart BS5930: 2015: Figure 8



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

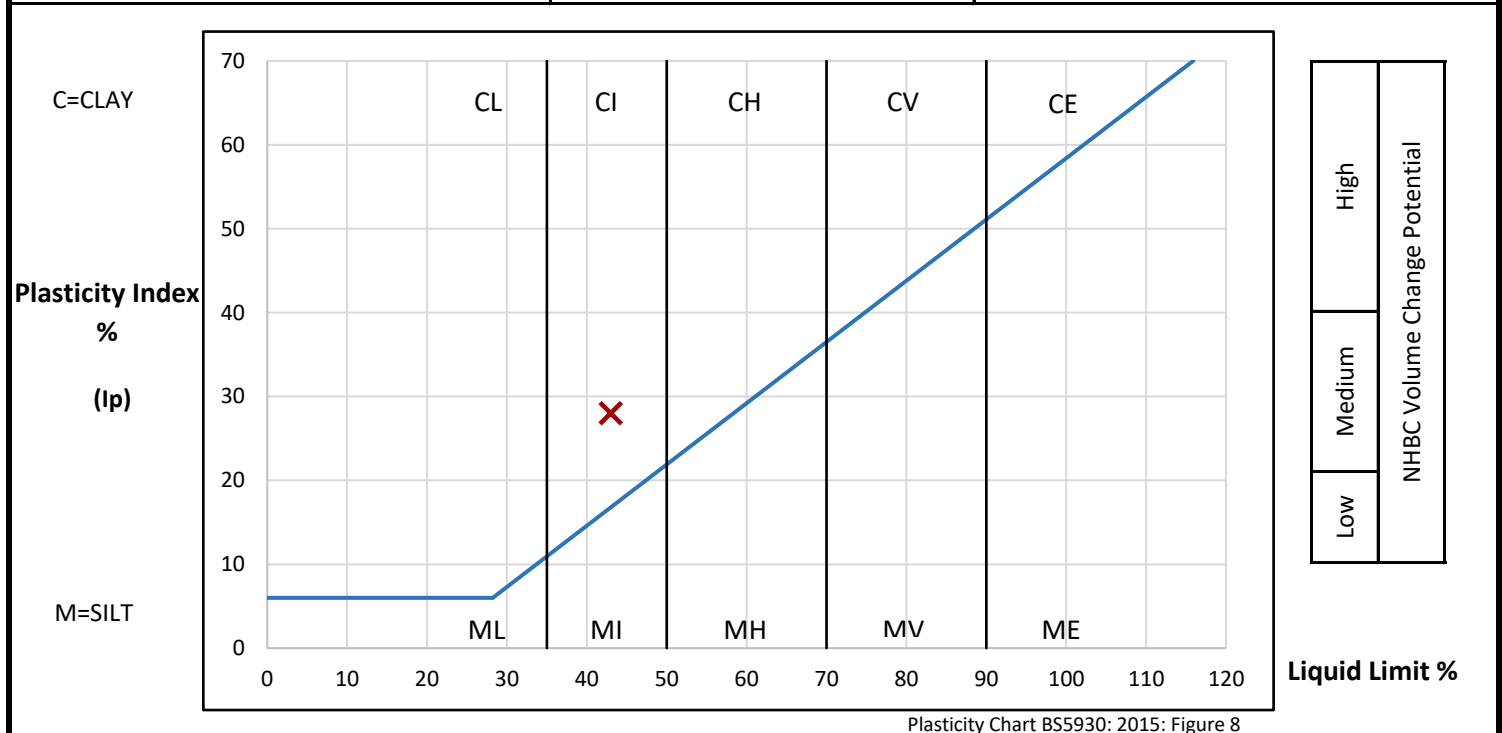


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS110	3.10	D	4	17.2	Firm mottled yellowish brown and brownish grey silty CLAY with rare silt pockets and selenite crystals	Specimen dried at 50°C due to the presence of selenite.

PREPARATION				Liquid Limit 43 %	
Method of preparation				From natural	Plastic Limit 15 %
Sample retained 0.425mm sieve (Assumed)				0 %	Plasticity Index 28 %
Corrected water content for material passing 0.425mm					Liquidity Index 0.08
Sample retained 2mm sieve (Assumed)				0 %	NHBC Modified (I _p) n/a
Curing time		28 hrs		Clay Content	Not analysed
				Derived Activity	Not analysed



Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
 Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
 Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

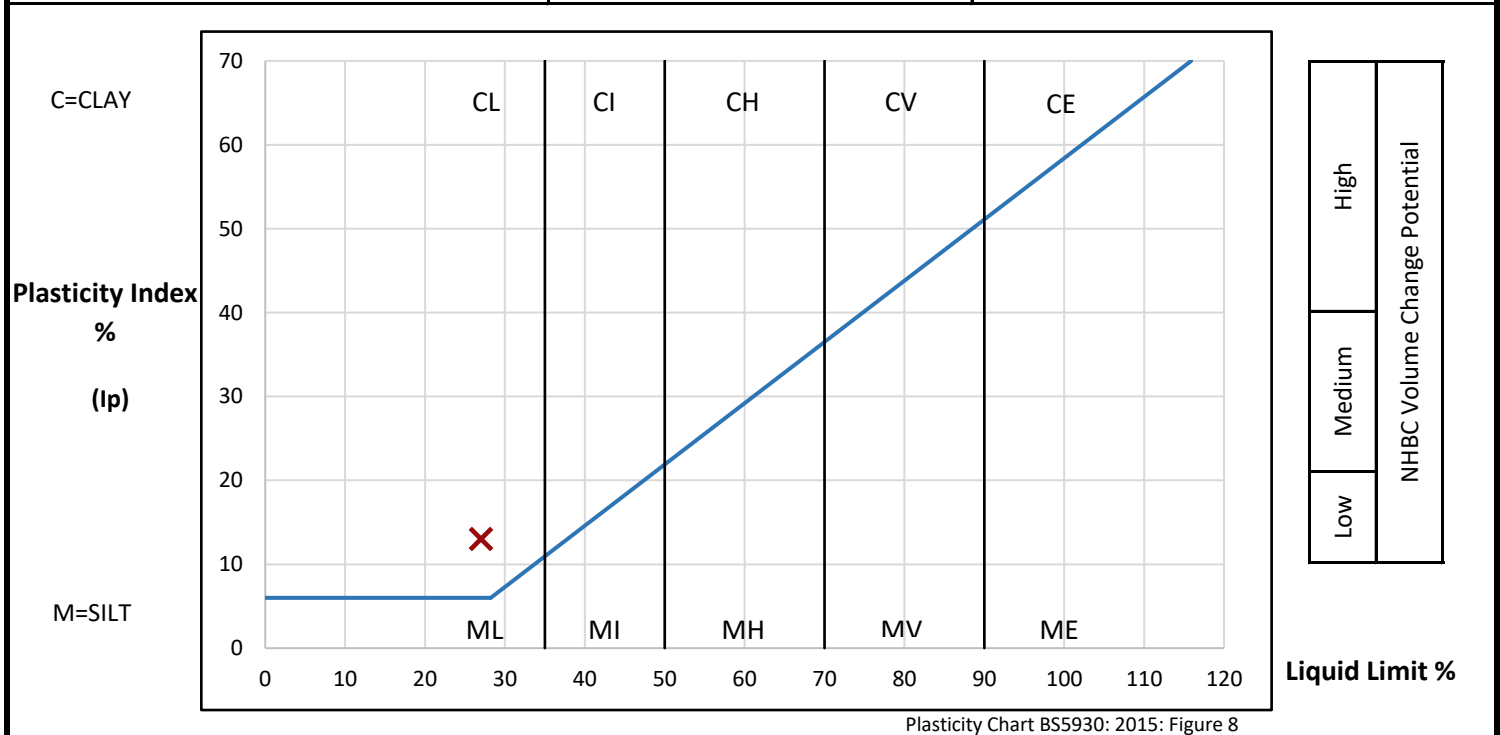


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample Type	Sample Reference	Water Content (W) %	Description	Remarks
WS115	1.40	D	1	22.0	Very soft mottled light bluish grey and yellowish brown silty CLAY with rare fine and medium sand pockets	

PREPARATION				Liquid Limit	27 %
Method of preparation				From natural	Plastic Limit 14 %
Sample retained 0.425mm sieve (Assumed)				0 %	Plasticity Index 13 %
Corrected water content for material passing 0.425mm					Liquidity Index 0.62
Sample retained 2mm sieve (Assumed)				0 %	NHBC Modified (I'p) n/a
Curing time		29 hrs		Clay Content	Not analysed
				Derived Activity	Not analysed



Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
 Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
 Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

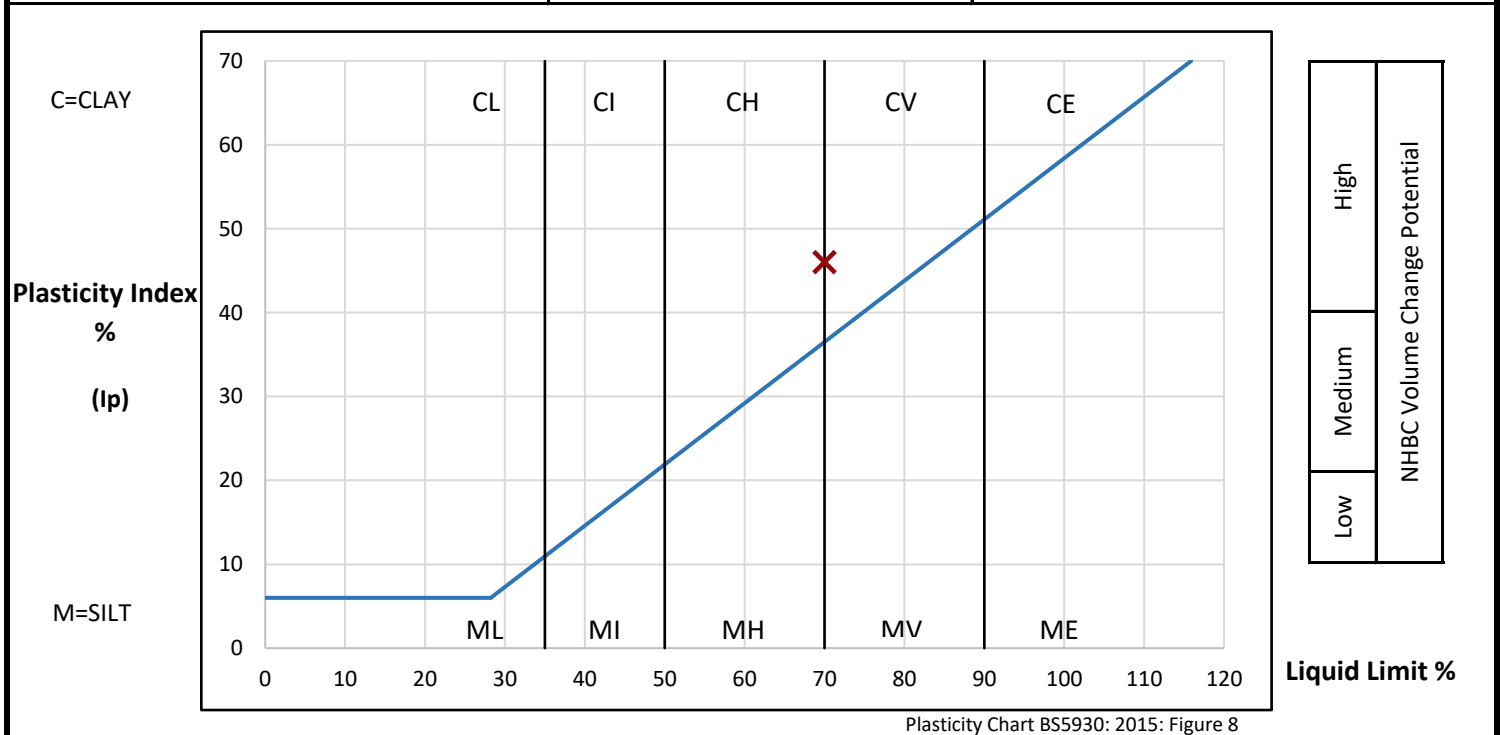


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
WS117	1.90	D	2	28.4	Firm mottled orange, brown and very dark greyish brown CLAY	

PREPARATION			Liquid Limit	70 %		
Method of preparation			From natural	Plastic Limit	24 %	
Sample retained 0.425mm sieve (Assumed)			0 %	Plasticity Index	46 %	
Corrected water content for material passing 0.425mm				Liquidity Index	0.10	
Sample retained 2mm sieve (Assumed)			0 %	NHBC Modified (I'p)	n/a	
Curing time		24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

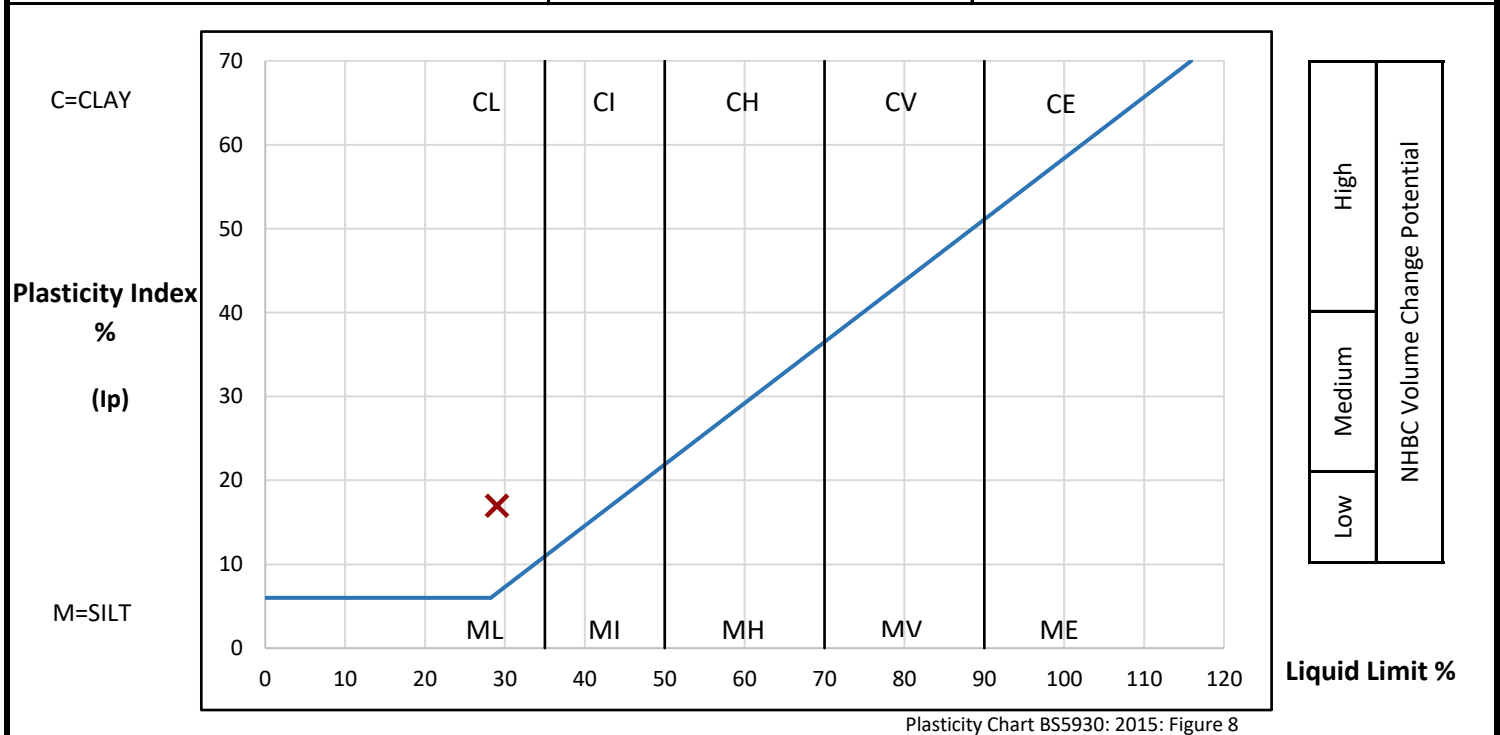


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
WS117	2.50	D	3	11.4	Firm very dark grey slightly sandy silty CLAY with frequent fossil/shell fragments from fine to coarse gravel size	

PREPARATION				Liquid Limit	29 %
Method of preparation				Wet sieved over 0.425mm sieve	Plastic Limit 12 %
Sample retained 0.425mm sieve (Measured)				33 %	Plasticity Index 17 %
Corrected water content for material passing 0.425mm				17.0 %	Liquidity Index -0.04
Sample retained 2mm sieve (Measured)				28 %	NHBC Modified (I'p) 11 %
Curing time		24 hrs		Clay Content	Not analysed
				Derived Activity	Not analysed



Method of Preparation:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2
Method of Test:	BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
Comments:	Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023



Contract	Chippenham
Serial No.	43728_1

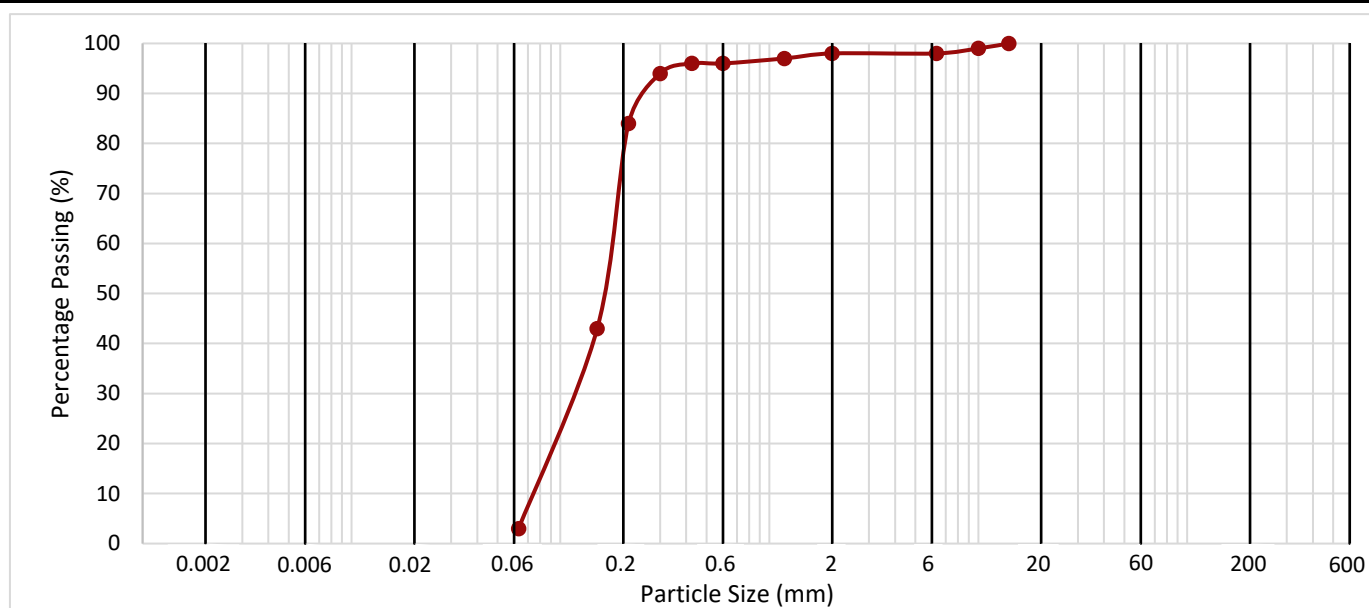
DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Borehole / Pit No.	Depth (m)	Sample		Description	Remarks
		Type	Reference		
TP110	1.70	B	1	Dark yellowish brown slightly gravelly slightly silty SAND	

Method of Test: **Wet Sieve**

Method of Pretreatment:

Not required



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES	BOULDERS
	SILT			SAND			GRAVEL				

Hydrometer	Particle Size (mm)	Passing (%)	Silt by Dry Mass (%)
	Particle Size (mm)	Passing (%)	Clay by Dry Mass (%)

Sieve Size (mm)	Passing (%)	Sand By Dry Mass (%)
2.00	98	95
1.18	97	
0.600	96	
0.425	96	
0.300	94	
0.212	84	
0.150	43	
0.063	3	

Fines By Dry Mass (%)	
<0.063mm	3

Sieve Size (mm)	Passing (%)	2mm+ By Dry Mass (%)
300		2
125		
90		
63		
50		
37.5		
28		
20		
14	100	
10	99	
6.3	98	
5	n/r*	

Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5
 Method of test: BS1377: Part 2: 1990: 9.2
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
 Comments: *Sieve not required to be representative of this material type



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

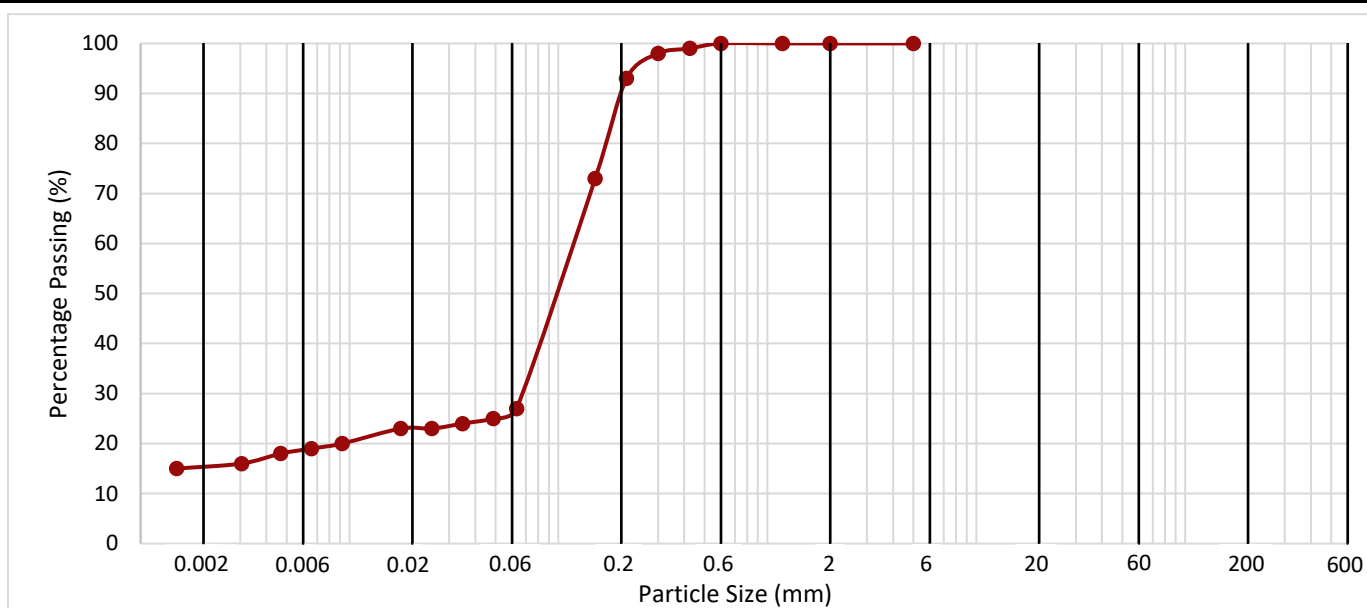


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Borehole / Pit No.	Depth (m)	Sample		Description	Remarks
		Type	Reference		
TP113	1.70	B	1	Light bluish grey and olive yellow clayey silty SAND	

Method of Test: Hydrometer + Pre-sieve Method of Pretreatment: Not required



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES	BOULDERS
	SILT			SAND			GRAVEL				

H y d r o m e t e r	Particle Size (mm)	Passing (%)	Silt by Dry Mass (%)
	0.0488	25	12
	0.0348	24	
	0.0248	23	
	0.0176	23	Clay by Dry Mass (%)
	0.0092	20	
	0.0066	19	
	0.0047	18	15
	0.0030	16	
	0.0015	15	

Sieve Size (mm)	Passing (%)	Sand By Dry Mass (%)
2.00	100	73
1.18	100	
0.600	100	
0.425	99	
0.300	98	
0.212	93	
0.150	73	
0.063	27	

Fines By Dry Mass (%)	
<0.063mm	27

Sieve Size (mm)	Passing (%)	2mm+ By Dry Mass (%)
300		0
125		
90		
63		
50		
37.5		
28		
20		
14		
10		
6.3		
5	100	

Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5
 Method of test: BS1377: Part 2: 1990: 9.2,9.5
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
 Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

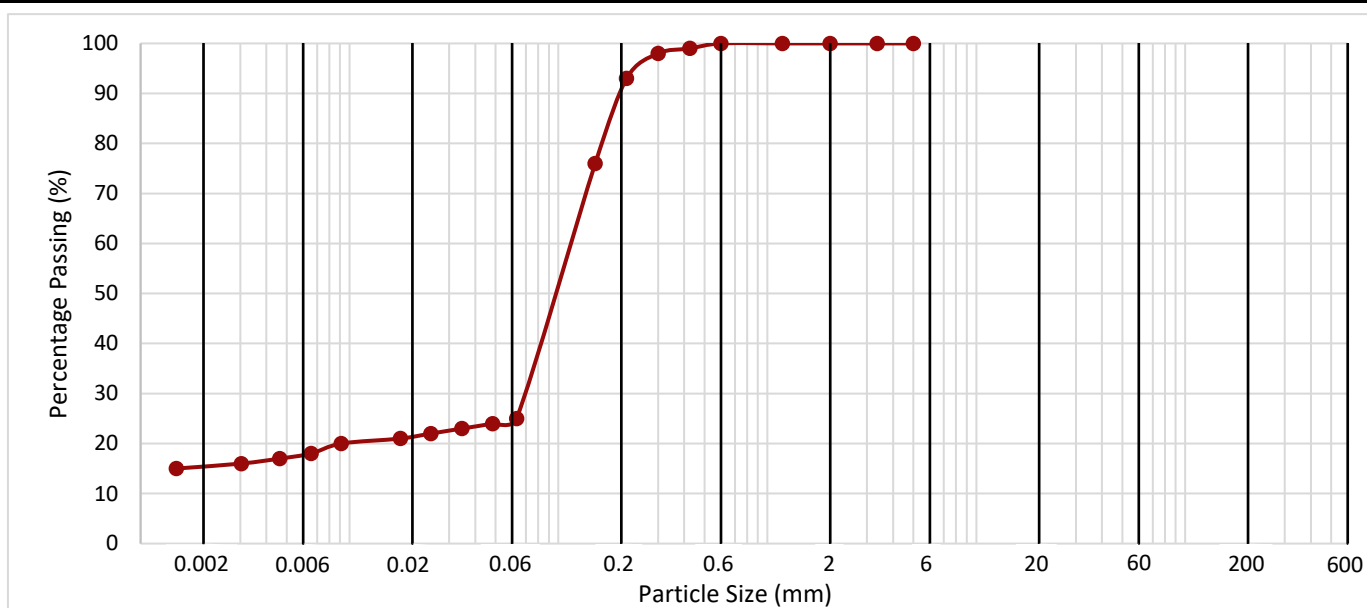


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Borehole / Pit No.	Depth (m)	Sample		Description	Remarks
		Type	Reference		
TP120	1.60	B	1	Olive yellow clayey silty SAND	

Method of Test: Hydrometer + Pre-sieve Method of Pretreatment: Not required



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES	BOULDERS
	SILT			SAND			GRAVEL				

H y d r o m e t e r	Particle Size (mm)	Passing (%)	Silt by Dry Mass (%)
	0.0485	24	10
	0.0345	23	
	0.0245	22	
	0.0175	21	Clay by Dry Mass (%)
	0.0091	20	
	0.0065	18	
	0.0046	17	15
	0.0030	16	
	0.0015	15	

Sieve Size (mm)	Passing (%)	Sand By Dry Mass (%)
2.00	100	75
1.18	100	
0.600	100	
0.425	99	
0.300	98	
0.212	93	
0.150	76	
0.063	25	

Fines By Dry Mass (%)	
<0.063mm	25

Sieve Size (mm)	Passing (%)	2mm+ By Dry Mass (%)
300		0
125		
90		
63		
50		
37.5		
28		
20		
14		
10		
6.3		
5	100	

Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5
 Method of test: BS1377: Part 2: 1990: 9.2,9.5
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
 Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 08/11/2023

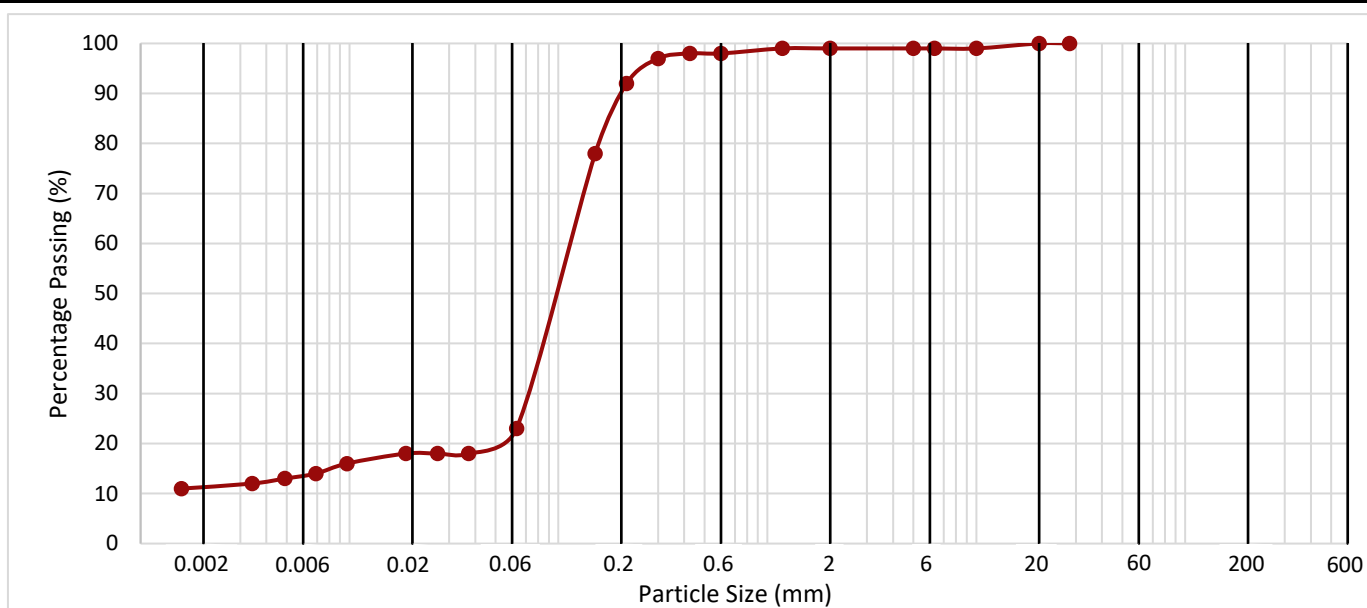


Contract	Chippenham
Serial No.	43728_1

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Borehole / Pit No.	Depth (m)	Sample		Description	Remarks
		Type	Reference		
TP133	2.00	B	1	Dark grey slightly gravelly clayey silty SAND. Gravel is grey angular to subrounded claystone	

Method of Test: **Wet Sieve + Hydrometer** Method of Pretreatment: **Not required**



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES	BOULDERS
	SILT			SAND			GRAVEL				

Hydrometer	Particle Size (mm)	Passing (%)	Silt by Dry Mass (%)
	0.0372	18	12
	0.0264	18	
	0.0186	18	
	0.0097	16	Clay by Dry Mass (%)
	0.0069	14	
	0.0049	13	
	0.0034	12	11
	0.0016	11	

Sieve Size (mm)	Passing (%)	Sand By Dry Mass (%)
2.00	99	76
1.18	99	
0.600	98	
0.425	98	
0.300	97	
0.212	92	
0.150	78	
0.063	23	

Fines By Dry Mass (%)	
<0.063mm	23

Sieve Size (mm)	Passing (%)	2mm+ By Dry Mass (%)
300		1
125		
90		
63		
50		
37.5		
28	100	
20	100	
14	n/r*	
10	99	
6.3	99	
5	99	

Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5
 Method of test: BS1377: Part 2: 1990: 9.2,9.5
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
 Comments: *Sieve not required to be representative of this material type