

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number SA01	
Excavation Method Trial Pit		Dimensions 0.35m W x 1.70m L		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location				Engineer PGE		Sheet 1/1	
Depth (m)		Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10 0.20 0.20 0.50		C 50kPa D C				(0.40) 0.40	Grass onto, dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium flint. (TOPSOIL LIKE MADE GROUND)		
1.00		D				(1.20)	Firm dark brown slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)		
1.70 1.90 2.00 2.00 2.15		55kPa 50kPa 80kPa D D				1.60 (0.20) 1.80 (0.35) 2.15	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)		
							Stiff light blue grey slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)		
							Complete at 2.30m		
						Remarks Infiltration testing performed. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.			
						Logged in accordance BS5930:2015			
						Scale (approx) 1:50		Logged By AA	

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number SA02	
Excavation Method Trial Pit		Dimensions 0.30m W x 1.00m L		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 03/10/2024-04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.10 0.30 0.30 0.40 0.50 0.60 0.80 0.90	C C D 80kPa D C D 130kPa				(0.20) 0.20 (0.25) 0.45 (0.55) 1.00	Grass onto, dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium flint. (TOPSOIL LIKE MADE GROUND) Firm dark brown slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM) Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION) Complete at 1.00m	  		
						Remarks Infiltration testing performed. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.			
						Logged in accordance BS5930:2015			
						Scale (approx) 1:50		Logged By AA	

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number SA03	
Excavation Method Trial Pit		Dimensions 0.35m W x 1.20m L		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 03/10/2024-04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.10	C				(0.30)	Grass onto, dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium flint. (TOPSOIL LIKE MADE GROUND)			
0.50	50kPa				0.30				
0.50	D					Firm dark brown slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
0.60	C				(1.10)				
1.00	D								
1.35	55kPa				1.40	Complete at 1.40m			
1.40	D								
						Remarks			
						Infiltration testing performed. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.			
						Logged in accordance BS5930:2015			
Scale (approx)						Logged By		Figure No.	
1:50						AA		P24-286.SA03	

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number SA04	
Excavation Method Trial Pit		Dimensions 0.35m W x 1.20m L		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 03/10/2024-04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.10	C				(0.30)	Grass onto, dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium flint. (TOPSOIL LIKE MADE GROUND)			
0.50	50kPa				0.30				
0.50	D					Firm dark brown slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
0.60	C				(1.10)				
1.00	D								
1.35	55kPa				1.40	Complete at 1.40m			
1.40	D								

Remarks

Infiltration testing performed.
Trial pit sides remained stable upon completion.
No obvious roots observed.
No groundwater encountered during excavation.
Trial pit backfilled with arisings.
No obvious signs of contamination noted.

Logged in accordance BS5930:2015

Scale (approx)

1:50

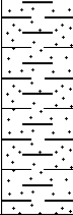
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Figure No.

P24-286.SA04

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PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number SA05	
Excavation Method Trial Pit		Dimensions 0.40m W x 1.20m L		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 03/10/2024-04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.10 0.15 0.40 0.40	C D C D				0.20 0.20 (0.60) 0.80	Grass onto, dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium flint. (TOPSOIL LIKE MADE GROUND) Firm dark brown slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)	 		
1.00 1.06 1.50 1.50	D 10kPa 5kPa D				(1.50)	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)			
2.00 2.00 2.30 2.30	5kPa D 10kPa D				2.30	Complete at 2.30m			
						Remarks No obvious signs of contamination noted. Trial pit backfilled with arisings. No groundwater encountered during excavation. No obvious roots observed. Trial pit sides remained stable upon completion. Infiltration testing performed.			
						Logged in accordance BS5930:2015			
						Scale (approx) 1:50		Logged By AA	

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number TP01	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.10	C				(0.30)	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND) Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM) Soft yellow brown very sandy slightly gravelly CLAY. Gravel composed of fine to coarse subangular to subrounded flint. (ALLUVIUM) Complete at 2.30m			
0.40	C				0.30 (0.30)				
0.70	D				0.60 (0.20)				
					0.80				



Remarks

LWD testing performed at c.0.50m depth.
Trial pit sides remained stable upon completion.
No obvious roots observed.
No groundwater encountered during excavation.
Trial pit backfilled with arisings.
No obvious signs of contamination noted.

Logged in accordance BS5930:2015

Scale (approx)

1:50

Logged By

AA

Figure No.

P24-286.TP01

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number TP02	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.40 0.50	C D				(0.30) 0.30 (0.20) 0.50	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND)			
					(0.60)	Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
1.00	D				1.10	Soft yellow brown very sandy slightly gravelly CLAY. Gravel composed of fine to coarse subangular to subrounded flint. (ALLUVIUM)			
					(1.00)	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)			
					2.10	Complete at 2.30m			
						Remarks			
						LWD testing performed at c.0.50m depth. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.			
						Logged in accordance BS5930:2015			
Scale (approx)			Logged By		Figure No.				
1:50			AA		P24-286.TP02				

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number TP03	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.30	D				(0.20) 0.20 (0.30) 0.50 (0.40) 0.90	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND) Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM) Soft yellow brown very sandy slightly gravelly CLAY. Gravel composed of fine to coarse subangular to subrounded flint. (ALLUVIUM) Complete at 0.90m	 		
0.80	D								
0.90	C								
		Remarks LWD testing performed at c.0.50m depth. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted. Logged in accordance BS5930:2015							
		Scale (approx)		Logged By		Figure No.			
		1:50		AA		P24-286.TP02			

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number TP04	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.10 0.30	C D				(0.20) 0.20 (0.20) 0.40	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND)			
					(0.70)	Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
1.40	D				1.10	Soft yellow brown very sandy slightly gravelly CLAY. Gravel composed of fine to coarse subangular to subrounded flint. (ALLUVIUM)			
1.90	D				(1.00)	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)			
					2.10	Complete at 2.10m			
						Remarks			
						LWD testing performed at c.0.50m depth. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.			
						Logged in accordance BS5930:2015			
				Scale (approx) 1:50		Logged By AA		Figure No. P24-286.TP04	

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number TP05	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.25	D				(0.20)	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND) Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM) Soft yellow brown very sandy slightly gravelly CLAY. Gravel composed of fine to coarse subangular to subrounded flint. (ALLUVIUM) Complete at 2.10m			
0.50	C				0.20				
0.50	D				0.30 (0.30)				
					0.60				
						Remarks			
						LWD testing performed at c.0.50m depth. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.			
						Logged in accordance BS5930:2015			
Scale (approx)			Logged By		Figure No.				
1:50			AA		P24-286.TP05				

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number TP06	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.80	C				(0.20)	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND)			
1.00	D				0.20		Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)		
					(0.30)	Soft yellow brown very sandy slightly gravelly CLAY. Gravel composed of fine to coarse subangular to subrounded flint. (ALLUVIUM)			
					1.00		Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)		
					(0.90)	Complete at 1.90m			
1.90	D				1.90				
						Remarks			
						LWD testing performed at c.0.50m depth. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.			
						Logged in accordance BS5930:2015			
Scale (approx)			Logged By		Figure No.				
1:50			AA		P24-286.TP06				

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number TP07	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.10 0.25 0.50	C D D				(0.20) (0.20) (0.30) (0.50) (0.30) (0.80)	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND) Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM) Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION) Complete at 0.80m			
						Remarks LWD testing performed at c.0.50m depth. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.			
						Scale (approx) 1:50		Logged By	

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number TP08	
Excavation Method		Dimensions		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.40 0.60 0.70	D C D				(0.30) (0.30) (0.30) (0.60) (0.20) (0.80)	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND) Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM) Soft yellow brown very sandy slightly gravelly CLAY. Gravel composed of fine to coarse subangular to subrounded flint. (ALLUVIUM) Complete at 0.80m			
						Remarks			
						LWD testing performed at c.0.50m depth. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.			
						Logged in accordance BS5930:2015			
Scale (approx)			Logged By		Figure No.				
1:50			AA.		P24-286.TP08				

Excavation Method	Dimensions		Ground Level (mOD)	Client Hills Homes Development Ltd	Job Number P24-286
	Location		Dates 04/10/2024	Engineer PGE	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.30) 0.30	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND)		
0.50	D				(0.70)	Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)		
0.90	C				1.00	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)		
1.50	D				(1.00) 2.00	Complete at 2.00m		



Remarks LWD testing performed at c.0.50m depth. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.		
Logged in accordance BS5930:2015		
Scale (approx) 1:50	Logged By AA.	Figure No. P24-286.TP08

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Trial Pit Number TP10	
Excavation Method		Dimensions		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.15	D				(0.20) 0.20	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND)			
0.50	C				(0.80)	Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
0.70	D				1.00	Complete at 1.00m			
						Remarks			
						LWD testing performed at c.0.50m depth. Trial pit sides remained stable upon completion. No obvious roots observed. No groundwater encountered during excavation. Trial pit backfilled with arisings. No obvious signs of contamination noted.			
						Logged in accordance BS5930:2015			
						Scale (approx)	Logged By	Figure No.	
						1:50	AA.	P24-286.TP10	

						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Number WS01	
Excavation Method Drive-in Windowless Sampler		Dimensions 87mm to 2.00m 77mm to 4.00m 67mm to 5.00m		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 03/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.50 0.50 0.70	C D 50kPa		1,2/2,2,2,3		(0.30) 0.30 (0.70)	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND)			
1.00-1.45 1.00 1.10	SPT(C) N=9 D C		2,2/2,3,3,3		1.00	Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
1.50 1.70	D 80kPa					Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)			
2.00-2.45 2.00	SPT(C) N=11 D		2,2/2,3,3,3		(2.80)				
2.50 2.70	D 130kPa								
3.00-3.45 3.00	SPT(C) N=18 D		4,3/3,5,5,5						
3.50 3.70	D 140kPa								
4.00-4.45 4.00	SPT(C) N=21 D		4,4/5,4,6,6		3.80	Stiff blue grey sandy slightly gravelly CLAY. Gravel is fine rounded calcareous nodules and pockets of selenite crystals present. (OXFORD CLAY FORMATION)			
					(1.20)				
4.80	D				5.00	Complete at 5.00m			
Remarks No obvious roots observed. No groundwater encountered during drilling. Monitoring well installed. No obvious signs of contamination noted. Borehole Sides remained stable upon completion.							Scale (approx) 1:50	Logged By MG	Figure No. P24-286.WS01

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.10	C				(0.20) 0.20	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium Flint. (TOPSOIL LIKE MADE GROUND)			
0.50 0.70 0.70	C 50kPa D					Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
1.00-1.45	SPT(C) N=9		1,2/2,2,3,2		(1.80)				
1.20	D								
1.70 1.70	70kPa D								
2.00-2.45	SPT(C) N=17		1,2/2,3,4,8		2.00	Stiff light blue mottled orange and brown slightly sandy CLAY. (WEATHERED OXFORD CLAY FORMATION)			
2.20	D				(0.50)				
2.70 2.70	110kPa D				2.50	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)			
3.00-3.45	SPT(C) N=18		3,3/5,4,4,5		(0.50)				
3.20	D		fast(1) at 3.42m, no rise after 20 mins.		3.00	Stiff blue grey sandy slightly gravelly CLAY. Gravel is fine rounded calcareous nodules and pockets of selenite crystals present. (OXFORD CLAY FORMATION)			
3.70 3.70	130kPa D								
4.00-4.45	SPT(C) N=18		3,4/3,5,5,5		(2.00)				
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									

Scale (approx)	Logged By
1:50	MG
Figure No. P24-286.WS02	

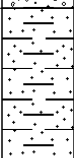
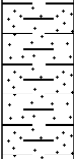
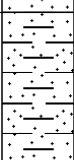
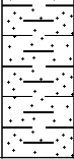
PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS			Number WS03	
Excavation Method Drive-in Windowless Sampler		Dimensions 87mm to 2.00m 77mm to 4.00m 67mm to 5.00m		Ground Level (mOD)		Client Hills Homes Development Ltd			Job Number P24-286	
		Location								
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.10	C				(0.30)	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium brick and flint. (TOPSOIL LIKE MADE GROUND)				
0.50	C				0.30					
0.50	D				(0.30)					
0.80	C				0.60	Stiff dark grey brown slightly sandy gravelly CLAY. Gravel of fine to coarse subangular to subrounded flint, brick and quartzite. (MADE GROUND)				
1.00-1.45	SPT(C) N=6		1,1/1,1,2,2							
1.00	D					Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)				
1.50	D				(1.90)					
1.70	100kPa									
2.00-2.45	SPT(C) N=11		2,2/2,2,3,4							
2.00	D									
2.50	D				2.50	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)		▼1		
2.70	80kPa									
3.00-3.45	SPT(C) N=16		3,3/3,4,4,5		(0.90)					
3.20	D		fast(1) at 3.10m, rose to 2.50m in 20 mins.		3.40	Stiff light blue grey slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)		▽1		
3.70	110kPa									
3.70	D				(1.10)					
4.00-4.45	SPT(C) N=21		4,4/4,5,6,6		4.50	Stiff blue grey sandy slightly gravelly CLAY. Gravel is fine rounded calcareous nodules and pockets of selenite crystals present. (OXFORD CLAY FORMATION)				
4.20	D									
4.80	D				(0.50)					
					5.00	Complete at 5.00m				
Remarks Borehole Sides remained stable upon completion. No obvious signs of contamination noted. Monitoring well installed. Groundwater encountered during drilling at 3.10m rising to 2.50m over 20 minutes. No obvious roots observed.							Scale (approx)	Logged By		
							1:50	MG		
							Figure No. P24-286.WS03			
Logged in accordance BS5930:2015										

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Number WS04	
Excavation Method Drive-in Windowless Sampler		Dimensions 87mm to 2.00m 77mm to 4.00m 67mm to 5.00m		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location							
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.10	C				(0.30) 0.30	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND)			
0.50 0.60 0.80 0.90 1.00-1.45 1.10	C D 55kPa C SPT(C) N=7 D		1,0/2,1,2,2			Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
1.60 1.80	D 45kPa				(1.80)				
2.00-2.45 2.10	SPT(C) N=9 D		1,2/1,2,3,3		2.10	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)			
2.60 2.80	D 100kPa				(0.90)				
3.00-3.45 3.10	SPT(C) N=13 D		3,2/3,3,3,4		3.00	Stiff light blue grey slightly sandy CLAY. Abundant pockets of selenite crystals present. (OXFORD CLAY FORMATION)			
3.60	D								
4.00-4.45 4.10	SPT(C) N=17 D		3,3/3,4,5,5		(2.00)				
4.90	D				5.00	Complete at 5.00m			
Remarks No obvious roots observed. No groundwater encountered during drilling. Monitoring well installed. No obvious signs of contamination noted. Borehole Sides remained stable upon completion.							Scale (approx) 1:50	Logged By MG	Figure No. P24-286.WS04
Logged in accordance BS5930:2015									

Excavation Method Drive-in Windowless Sampler	Dimensions 87mm to 2.00m 77mm to 4.00m 67mm to 5.00m	Ground Level (mOD)	Client Hills Homes Development Ltd	Job Number P24-286
	Location	Dates 03/10/2024	Engineer PGE	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.10	C				(0.20)	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND)			
0.40	C				0.20				
0.50	D				(0.70)	Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
0.80	78kPa				0.90				
1.00-1.45	SPT(C) N=13		1,2/2,3,4,4			Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)			
1.10	C								
1.30	D								
1.80	86kPa				(2.10)				
1.80	D								
2.00-2.45	SPT(C) N=12		2,3/2,4,3,3						
2.30	D								
2.80	110kPa				3.00	Stiff light blue grey slightly sandy CLAY. Abundant pockets of selenite crystals present. (OXFORD CLAY FORMATION)			
2.80	D								
3.00-3.45	SPT(C) N=17		4,3/4,4,4,5						
3.30	D								
3.80	110kPa				(2.00)				
3.80	D								
4.00-4.45	SPT(C) N=15		3,3/3,3,5,4						
4.30	D								
4.80	110kPa				5.00	Complete at 5.00m			
4.80	D								

Remarks No obvious roots observed. No groundwater encountered during drilling. Monitoring well installed. No obvious signs of contamination noted. Borehole Sides remained stable upon completion.	Scale (approx) 1:50	Logged By MG
Figure No. P24-286.WS05		

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Number WS06	
Excavation Method Drive-in Windowless Sampler		Dimensions 87mm to 2.00m 77mm to 4.00m 67mm to 5.00m		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location							
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
0.10	C		1,1/1,1,2,1		(0.20)	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium Flint. (TOPSOIL LIKE MADE GROUND)		▼1	
0.40	C				(0.70)	Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
0.50	D				0.90	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)			
0.80	78kPa								
0.80	C								
1.00-1.45	SPT(C) N=5		Slow(1) at 1.90m, rose to 1.10m in 20 mins. 2,2/2,3,3,3		(2.10)			▽1	
1.30	D								
1.80	86kPa								
1.80	D								
2.00-2.45	SPT(C) N=11								
2.30	D		2,2/3,3,3,3		3.00	Stiff light blue grey slightly sandy CLAY. Abundant pockets of selenite crystals present. (OXFORD CLAY FORMATION)			
2.80	110kPa								
2.80	D								
3.00-3.45	SPT(C) N=12								
3.30	D								
3.80	110kPa		4,4/4,4,4,5		(2.00)				
3.80	D								
4.00-4.45	SPT(C) N=17								
4.30	D								
4.80	110kPa								
4.80	D				5.00	Complete at 5.00m			
Remarks No obvious roots observed. Borehole Sides remained stable upon completion. No obvious signs of contamination noted. Monitoring well installed. Groundwater strike at 1.90m rising to 1.10m over 20 minutes. Logged in accordance BS5930:2015							Scale (approx) 1:50	Logged By MG	Figure No. P24-286.WS06

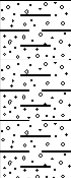
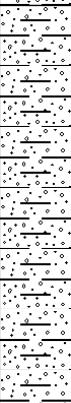
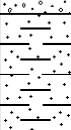
Site Land West of Bliss Farm, Trowbridge, BA14 6DS	Number WS07
Client Hills Homes Development Ltd	Job Number P24-286
Engineer PGE	Sheet 1/1

Excavation Method Drive-in Windowless Sampler	Dimensions 87mm to 2.00m 77mm to 4.00m 67mm to 5.00m	Ground Level (mOD)
	Location	Dates 04/10/2024

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10 0.40 0.40 0.50	C 56kPa D C				(0.20) 0.20	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium brick and flint. (TOPSOIL LIKE MADE GROUND)		
					(0.90)	Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)		
0.90 1.00-1.45	C SPT(C) N=11		1,3/3,2,3,3		1.10	Soft yellow brown very sandy slightly gravelly CLAY. Gravel composed of fine to coarse subangular to subrounded flint. (ALLUVIUM)		V1
1.30	D		Seepage(1) at 1.30m.		(0.40) 1.50	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)		
1.70 1.80	100kPa D							
2.00-2.45	SPT(C) N=14		2,2/3,3,4,4					
2.30	D							
2.80 2.80	120kPa D				(2.40)			
3.30	D							
3.80 3.80	70kPa D							
4.00-4.45	SPT(C) N=19		4,4/3,5,6,5		3.90	Stiff light blue grey slightly sandy CLAY. Abundant pockets of selenite crystals present. (OXFORD CLAY FORMATION)		
4.30	D				(1.10)			
4.80	D				5.00	Complete at 5.00m		

Remarks Groundwater seepage at 1.30m. Borehole backfilled with arisings. No obvious signs of contamination noted. Borehole Sides remained stable upon completion. No obvious roots observed.	Scale (approx) 1:50	Logged By MG
Logged in accordance BS5930:2015	Figure No. P24-286.WS06	

Client Hills Homes Development Ltd	Job Number P24-286
Engineer PGE	Sheet 1/1

Description	Legend	Water
Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium brick and flint. (TOPSOIL LIKE MADE GROUND)		
Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)		
Soft yellow brown very sandy slightly gravelly CLAY. Gravel composed of fine to coarse subangular to subrounded flint. (ALLUVIUM)		
Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)		
Complete at 5.00m		

Scale (approx)	Logged By
1:50	MG
Figure No. P24-286.WS06	

PADDOCK GEO ENGINEERING						Site Land West of Bliss Farm, Trowbridge, BA14 6DS		Number WS09	
Excavation Method Drive-in Windowless Sampler		Dimensions 87mm to 2.00m 77mm to 4.00m 67mm to 5.00m		Ground Level (mOD)		Client Hills Homes Development Ltd		Job Number P24-286	
		Location		Dates 04/10/2024		Engineer PGE		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.10	C				(0.30) 0.30	Grass onto, firm dark brown slightly sandy gravelly organic CLAY. Gravel is composed of fine to medium flint. (TOPSOIL LIKE MADE GROUND)			
0.60 0.70 0.70 0.80 1.00-1.45	C 54kPa D C SPT(C) N=5		1,2/1,1,1,2		(0.60) 0.90	Firm dark brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is composed of fine to medium subangular to subrounded flint. (ALLUVIUM)			
1.70 1.70	86kPa D		Fast(1) at 2.00m, no rise after 20 mins. 0,0/1,2,2,2		(2.10)	Stiff light blue mottled orange and brown slightly sandy CLAY. Abundant pockets of selenite crystals present. (WEATHERED OXFORD CLAY FORMATION)			▼1
2.00-2.45	SPT(C) N=7								
2.70 2.70	110kPa D								
3.00-3.45	SPT(C) N=10		2,2/2,2,3,3		3.00	Stiff light blue grey slightly sandy CLAY. Abundant pockets of selenite crystals present. (OXFORD CLAY FORMATION)			
3.70 3.70	110kPa D				(1.00)				
4.00-4.45	SPT(C) N=13		2,3/3,3,3,4		4.00	Complete at 4.00m			
Remarks Groundwater strike at 2.00m standing at 2.00m after 20 minutes. Borehole backfilled with arisings. No obvious signs of contamination noted. Borehole sides remained stable upon completion. No obvious roots observed.								Scale (approx) 1:50	Logged By MG
Logged in accordance BS5930:2015								Figure No. P24-286.WS09	



Situated in the west portion of the site facing east showing the site boundaries and general surface.



Situated in the central portion of the site facing west showing the site boundaries and general surface.



Situated in the central portion of the site facing north showing the site boundaries and general surface.



Situated in the central portion of the site facing east showing the site boundaries and general surface.



Situated in the east portion of the site facing west showing the site boundaries and general surface.



Situated in the south portion of the site facing north showing the site boundaries and general surface.



Situated in the west portion of the site facing east showing the site boundaries and general surface.



Photo of SA02



Photo of SA02 arisings



Photo of SA03



Photo of SA03 arisings



Photo of SA04



Photo of SA04 arisings



Photo of SA05



Photo of SA05 arisings



Photo of WS01



Photo of WS02



Photo of WS03



Photo of WS04



Photo of WS05



Photo of WS06



Photo of WS07



Photo of WS08



Photo of WS09



Photo of SA01



Photo of SA01 arisings



Photo of TP01



Photo of TP01 arisings



Photo of TP02



Photo of TP02 arisings



Photo of TP03



Photo of TP03 arisings



Photo of TP04



Photo of TP04 arisings



Photo of TP05



Photo of TP05 arisings



Photo of TP06



Photo of TP06 arisings



Photo of TP07



Photo of TP07 arisings



Photo of TP08



Photo of TP08 arisings



Photo of TP09



Photo of TP09 arisings



Photo of TP10



Photo of TP10 arisings

APPENDIX C

Contamination Assessment

Chemical Analysis Reports
CLEA Analysis Results Summary
PGE In-House GAC's



Martin
Paddock Geo Engineering Ltd
The Log Cabin
Manor Farm
Whaddon Road
Newton Longville
MK17 0AU

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

DETS Report No: 24-12094

Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS

Project / Job Ref: None Supplied

Order No: None Supplied

Sample Receipt Date: 11/10/2024

Sample Scheduled Date: 11/10/2024

Report Issue Number: 1

Reporting Date: 17/10/2024

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.

For Topsoil and WAC analysis the expanded uncertainty measurement should be considered while evaluating results against compliance values.



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



Soil Analysis Certificate						
DETS Report No: 24-12094	~ Date Sampled	03/10/24	03/10/24	03/10/24	03/10/24	03/10/24
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	WS01	WS02	WS03	WS04	WS05
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Order No: None Supplied	~ Depth (m)	0.50	0.10	0.10	0.10	0.10
Reporting Date: 17/10/2024	DETS Sample No	743310	743311	743312	743313	743314

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	7.9	6.5	7.2	6.1	6.7
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	298	885	805	1070	1059
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.03	0.09	0.08	0.11	0.11
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS					
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS					
Loss on Ignition @ 450°C	%	< 0.01	MCERTS	11.20	14.90	5.60	17.70	17.40
Antimony (Sb)	mg/kg	< 1	NONE					
Arsenic (As)	mg/kg	< 2	MCERTS	17	18	20	25	22
Beryllium (Be)	mg/kg	< 0.5	MCERTS	1.4	1.4	1.3	1.5	1.5
W/S Boron	mg/kg	< 1	NONE	1	1.8	< 1	< 1	2.6
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.3	0.6	0.6	0.7	0.6
Chromium (Cr)	mg/kg	< 2	MCERTS	36	33	27	31	30
Chromium (III)	mg/kg	< 2	NONE					
Chromium (hexavalent)	mg/kg	< 2	NONE					
Copper (Cu)	mg/kg	< 4	MCERTS	22	28	49	32	40
Lead (Pb)	mg/kg	< 3	MCERTS	25	65	81	79	97
Manganese (Mn)	mg/kg	< 5	NONE					
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Molybdenum (Mo)	mg/kg	< 1	MCERTS					
Nickel (Ni)	mg/kg	< 3	MCERTS	57	31	28	30	34
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Vanadium (V)	mg/kg	< 1	MCERTS	61	62	57	69	57
Zinc (Zn)	mg/kg	< 3	MCERTS	101	132	138	140	150
TPH (EPH EC10-EC40)	mg/kg	< 6	MCERTS	< 6	< 6	< 6	< 6	< 6

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)

~Sample details provided by customer and can affect the validity of results

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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



Soil Analysis Certificate						
DETS Report No: 24-12094	~ Date Sampled	03/10/24	03/10/24	03/10/24	03/10/24	03/10/24
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	WS06	SA04	WS07	WS08	WS09
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Order No: None Supplied	~ Depth (m)	0.10	0.10	0.50	0.90	0.60
Reporting Date: 17/10/2024	DETS Sample No	743315	743316	743317	743318	743319

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected			
pH	pH Units	N/a	MCERTS	7.3	6.5	7.1	7.9	7.2
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	629	874	426	926	225
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.06	0.09	0.04	0.09	0.02
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS					
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS					
Loss on Ignition @ 450°C	%	< 0.01	MCERTS	14.40	6.20	7.40	5.30	5.10
Antimony (Sb)	mg/kg	< 1	NONE					
Arsenic (As)	mg/kg	< 2	MCERTS	22	18	19	14	17
Beryllium (Be)	mg/kg	< 0.5	MCERTS	1.2	1.4	1	0.8	1
W/S Boron	mg/kg	< 1	NONE	1.6	1.1	1.1	1.5	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.7	0.5	0.3	0.2	0.3
Chromium (Cr)	mg/kg	< 2	MCERTS	24	34	24	22	19
Chromium (III)	mg/kg	< 2	NONE					
Chromium (hexavalent)	mg/kg	< 2	NONE					
Copper (Cu)	mg/kg	< 4	MCERTS	28	36	15	19	13
Lead (Pb)	mg/kg	< 3	MCERTS	67	96	26	16	16
Manganese (Mn)	mg/kg	< 5	NONE					
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Molybdenum (Mo)	mg/kg	< 1	MCERTS					
Nickel (Ni)	mg/kg	< 3	MCERTS	28	32	25	32	32
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Vanadium (V)	mg/kg	< 1	MCERTS	55	60	51	38	40
Zinc (Zn)	mg/kg	< 3	MCERTS	121	143	80	72	74
TPH (EPH EC10-EC40)	mg/kg	< 6	MCERTS	< 6	< 6	< 6	< 6	< 6

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)

~Sample details provided by customer and can affect the validity of results



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



Soil Analysis Certificate						
DETS Report No: 24-12094	~ Date Sampled	03/10/24	04/10/24	04/10/24	04/10/24	04/10/24
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	SA01	DCP01	WAC1	WAC2	WAC3
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Order No: None Supplied	~ Depth (m)	0.10	0.40	None Supplied	None Supplied	None Supplied
Reporting Date: 17/10/2024	DETS Sample No	743322	743323	743324	743325	743326

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	6.5	8.0	7.3	7.0	7.5
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	1219	406	417	767	862
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.12	0.04	0.04	0.08	0.09
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS					
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS					
Loss on Ignition @ 450°C	%	< 0.01	MCERTS	6.60	8.50	7.90	12.10	7.60
Antimony (Sb)	mg/kg	< 1	NONE			2.6	3.8	3.6
Arsenic (As)	mg/kg	< 2	MCERTS	23	23	18	23	18
Beryllium (Be)	mg/kg	< 0.5	MCERTS	1.5	1	1	1.4	1
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	1.8	1.1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.6	0.5	0.4	0.5	0.4
Chromium (Cr)	mg/kg	< 2	MCERTS	32	24	22	32	25
Chromium (III)	mg/kg	< 2	NONE			22	32	25
Chromium (hexavalent)	mg/kg	< 2	NONE			< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	25	47	16	29	35
Lead (Pb)	mg/kg	< 3	MCERTS	50	78	34	65	56
Manganese (Mn)	mg/kg	< 5	NONE			446	958	473
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Molybdenum (Mo)	mg/kg	< 1	MCERTS			< 1	1.2	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	30	24	25	40	29
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Vanadium (V)	mg/kg	< 1	MCERTS	69	47	48	64	48
Zinc (Zn)	mg/kg	< 3	MCERTS	125	130	83	129	111
TPH (EPH EC10-EC40)	mg/kg	< 6	MCERTS	< 6	< 6	< 6	< 6	< 6

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Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 24-12094	~ Date Sampled	04/10/24	03/10/24	03/10/24	03/10/24	03/10/24
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	WAC4	WS01	WS02	WS02	WS03
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Order No: None Supplied	~ Depth (m)	None Supplied	1.50	0.70	1.70	0.50
Reporting Date: 17/10/2024	DETS Sample No	743327	743328	743329	743330	743331

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected				
pH	pH Units	N/a	MCERTS	7.4	7.8	7.9	7.9	7.8
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	658	1393	595	265	630
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.07	0.14	0.06	0.03	0.06
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS		372	23	< 10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS		0.37	0.02	< 0.01	< 0.01
Loss on Ignition @ 450°C	%	< 0.01	MCERTS	10.90				
Antimony (Sb)	mg/kg	< 1	NONE	2.8				
Arsenic (As)	mg/kg	< 2	MCERTS	20				
Beryllium (Be)	mg/kg	< 0.5	MCERTS	1.3				
W/S Boron	mg/kg	< 1	NONE	< 1				
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.5				
Chromium (Cr)	mg/kg	< 2	MCERTS	28				
Chromium (III)	mg/kg	< 2	NONE	28				
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2				
Copper (Cu)	mg/kg	< 4	MCERTS	26				
Lead (Pb)	mg/kg	< 3	MCERTS	46				
Manganese (Mn)	mg/kg	< 5	NONE	491				
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1				
Molybdenum (Mo)	mg/kg	< 1	MCERTS	1				
Nickel (Ni)	mg/kg	< 3	MCERTS	29				
Selenium (Se)	mg/kg	< 2	MCERTS	< 2				
Vanadium (V)	mg/kg	< 1	MCERTS	57				
Zinc (Zn)	mg/kg	< 3	MCERTS	109				
TPH (EPH EC10-EC40)	mg/kg	< 6	MCERTS	< 6				

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Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 24-12094	~ Date Sampled	03/10/24	03/10/24	03/10/24	03/10/24	03/10/24
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	WS03	WS04	WS05	WS06	WS06
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Order No: None Supplied	~ Depth (m)	2.50	2.10	1.30	1.00	2.00
Reporting Date: 17/10/2024	DETS Sample No	743332	743333	743334	743335	743336

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025					
pH	pH Units	N/a	MCERTS	7.9	7.9	7.5	8.0	7.3
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	728	962	81760	3062	1432
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.07	0.10	8.18	0.31	0.14
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	93	67	1780	1180	413
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.09	0.07	1.78	1.18	0.41
Loss on Ignition @ 450°C	%	< 0.01	MCERTS					
Antimony (Sb)	mg/kg	< 1	NONE					
Arsenic (As)	mg/kg	< 2	MCERTS					
Beryllium (Be)	mg/kg	< 0.5	MCERTS					
W/S Boron	mg/kg	< 1	NONE					
Cadmium (Cd)	mg/kg	< 0.2	MCERTS					
Chromium (Cr)	mg/kg	< 2	MCERTS					
Chromium (III)	mg/kg	< 2	NONE					
Chromium (hexavalent)	mg/kg	< 2	NONE					
Copper (Cu)	mg/kg	< 4	MCERTS					
Lead (Pb)	mg/kg	< 3	MCERTS					
Manganese (Mn)	mg/kg	< 5	NONE					
Mercury (Hg)	mg/kg	< 1	MCERTS					
Molybdenum (Mo)	mg/kg	< 1	MCERTS					
Nickel (Ni)	mg/kg	< 3	MCERTS					
Selenium (Se)	mg/kg	< 2	MCERTS					
Vanadium (V)	mg/kg	< 1	MCERTS					
Zinc (Zn)	mg/kg	< 3	MCERTS					
TPH (EPH EC10-EC40)	mg/kg	< 6	MCERTS					

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Subcontracted analysis (S)

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Soil Analysis Certificate						
DETS Report No: 24-12094	~ Date Sampled	03/10/24	04/10/24	04/10/24	04/10/24	04/10/24
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	WS07	WS07	WS09	WS09	SA02
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Order No: None Supplied	~ Depth (m)	0.80	1.80	1.70	2.70	0.50
Reporting Date: 17/10/2024	DETS Sample No	743337	743338	743340	743341	743342

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025					
pH	pH Units	N/a	MCERTS	8.0	7.9	7.9	8.1	7.8
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	473	843	267	947	993
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.05	0.08	0.03	0.09	0.10
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	83	119	46	192	223
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.08	0.12	0.05	0.19	0.22
Loss on Ignition @ 450°C	%	< 0.01	MCERTS					
Antimony (Sb)	mg/kg	< 1	NONE					
Arsenic (As)	mg/kg	< 2	MCERTS					
Beryllium (Be)	mg/kg	< 0.5	MCERTS					
W/S Boron	mg/kg	< 1	NONE					
Cadmium (Cd)	mg/kg	< 0.2	MCERTS					
Chromium (Cr)	mg/kg	< 2	MCERTS					
Chromium (III)	mg/kg	< 2	NONE					
Chromium (hexavalent)	mg/kg	< 2	NONE					
Copper (Cu)	mg/kg	< 4	MCERTS					
Lead (Pb)	mg/kg	< 3	MCERTS					
Manganese (Mn)	mg/kg	< 5	NONE					
Mercury (Hg)	mg/kg	< 1	MCERTS					
Molybdenum (Mo)	mg/kg	< 1	MCERTS					
Nickel (Ni)	mg/kg	< 3	MCERTS					
Selenium (Se)	mg/kg	< 2	MCERTS					
Vanadium (V)	mg/kg	< 1	MCERTS					
Zinc (Zn)	mg/kg	< 3	MCERTS					
TPH (EPH EC10-EC40)	mg/kg	< 6	MCERTS					

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Soil Analysis Certificate						
DETS Report No: 24-12094	~ Date Sampled	03/10/24				
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied				
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	SA05				
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied				
~ Order No: None Supplied	~ Depth (m)	2.00				
Reporting Date: 17/10/2024	DETS Sample No	743344				

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025				
pH	pH Units	N/a	MCERTS	7.4			
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	629			
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.06			
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	129			
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.13			
Loss on Ignition @ 450°C	%	< 0.01	MCERTS				
Antimony (Sb)	mg/kg	< 1	NONE				
Arsenic (As)	mg/kg	< 2	MCERTS				
Beryllium (Be)	mg/kg	< 0.5	MCERTS				
W/S Boron	mg/kg	< 1	NONE				
Cadmium (Cd)	mg/kg	< 0.2	MCERTS				
Chromium (Cr)	mg/kg	< 2	MCERTS				
Chromium (III)	mg/kg	< 2	NONE				
Chromium (hexavalent)	mg/kg	< 2	NONE				
Copper (Cu)	mg/kg	< 4	MCERTS				
Lead (Pb)	mg/kg	< 3	MCERTS				
Manganese (Mn)	mg/kg	< 5	NONE				
Mercury (Hg)	mg/kg	< 1	MCERTS				
Molybdenum (Mo)	mg/kg	< 1	MCERTS				
Nickel (Ni)	mg/kg	< 3	MCERTS				
Selenium (Se)	mg/kg	< 2	MCERTS				
Vanadium (V)	mg/kg	< 1	MCERTS				
Zinc (Zn)	mg/kg	< 3	MCERTS				
TPH (EPH EC10-EC40)	mg/kg	< 6	MCERTS				

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)

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-12094	~ Date Sampled	03/10/24	03/10/24	03/10/24	03/10/24	03/10/24
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	WS01	WS02	WS03	WS04	WS05
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Order No: None Supplied	~ Depth (m)	0.50	0.10	0.10	0.10	0.10
Reporting Date: 17/10/2024	DETS Sample No	743310	743311	743312	743313	743314

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	0.28	< 0.1	0.15	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.24	< 0.1	0.14	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.17	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	0.18	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.18	< 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	0.18	< 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

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-12094	~ Date Sampled	03/10/24	03/10/24	03/10/24	03/10/24	03/10/24
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	WS06	SA04	WS07	WS08	WS09
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~ Order No: None Supplied	~ Depth (m)	0.10	0.10	0.50	0.90	0.60
Reporting Date: 17/10/2024	DETS Sample No	743315	743316	743317	743318	743319

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	0.15	0.17	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.20	< 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

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-12094	~ Date Sampled	03/10/24	04/10/24			
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied	None Supplied			
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	SA01	DCP01			
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied	None Supplied			
~ Order No: None Supplied	~ Depth (m)	0.10	0.40			
Reporting Date: 17/10/2024	DETS Sample No	743322	743323			

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

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-12094	~ Date Sampled	04/10/24	04/10/24	04/10/24	04/10/24	
Paddock Geo Engineering Ltd	~ Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
~ Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	~ TP / BH No	WAC1	WAC2	WAC3	WAC4	
~ Project / Job Ref: None Supplied	~ Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
~ Order No: None Supplied	~ Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	
Reporting Date: 17/10/2024	DETS Sample No	743324	743325	743326	743327	

Determinand	Unit	RL	Accreditation	(n)	(n)
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1
Coronene	mg/kg	< 0.1	NONE	< 0.1	< 0.1
Total Oily Waste PAHs	mg/kg	< 1	MCERTS	< 1	< 1
Total Dutch 10 PAHs	mg/kg	< 1	MCERTS	< 1	< 1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6
Total WAC-17 PAHs	mg/kg	< 1.7	NONE	< 1.7	< 1.7

~ Sample details provided by customer and can affect the validity of results

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Waste Acceptance Criteria Analytical Certificate									
DETS Report No: 24-12094		~Date Sampled	04/10/24				Landfill Waste Acceptance Criteria Limits		
Paddock Geo Engineering Ltd		~Time Sampled	None Supplied				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS		~TP / BH No	WAC1						
~Project / Job Ref: None Supplied		~Additional Refs	None Supplied						
~Order No: None Supplied		~Depth (m)	None Supplied						
Reporting Date: 17/10/2024		DETS Sample No	743324						
Determinand	Unit	MDL							
TOC ^{MU}	%	< 0.1	2.3				3%	5%	6%
Loss on Ignition ^{MU}	%	< 0.01	7.90				--	--	10%
BTEX ^{MU}	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil ^{MU}	mg/kg	< 10	< 10				500	--	--
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7				100	--	--
pH ^{MU}	pH Units	N/a	7.3				--	--	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1				--	To be evaluated	To be evaluated
Eluate Analysis			10:1 mg/l			Cumulative 10:1 * mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U			0.0022			0.022	0.5	2	25
Barium ^U			0.0084			0.084	20	100	300
Cadmium ^U			< 0.0002			< 0.002	0.04	1	5
Chromium ^U			0.0009			0.009	0.5	10	70
Copper ^U			0.0083			0.083	2	50	100
Mercury ^U			< 0.00004			< 0.0004	0.01	0.2	2
Molybdenum ^U			0.0005			0.005	0.5	10	30
Nickel ^U			0.0020			0.020	0.4	10	40
Lead ^U			0.0013			0.013	0.5	10	50
Antimony ^U			< 0.0002			< 0.002	0.06	0.7	5
Selenium ^U			0.0002			0.002	0.1	0.5	7
Zinc ^U			0.010			0.10	4	50	200
Chloride ^U			< 1.0			< 10	800	15000	25000
Fluoride ^U			< 0.5			< 5	10	150	500
Sulphate ^U			4.6			46	1000	20000	50000
TDS			70			700	4000	60000	100000
Phenol Index ^U			< 0.01			< 0.1	1	-	-
DOC ^U			9.5			94.7	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.12						
Dry Matter (%)			75.7						
Moisture (%)			32.2						
Stage 1									
Volume Eluate L10 (litres)			0.87						
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion									
Stated limits are for guidance only and Normec DETS Limited cannot be held responsible for any discrepancies with current legislation									
M Denotes MCERTS accredited test									
U Denotes ISO17025 accredited test									
~Sample details provided by customer and can affect the validity of results									
* DETS are accredited for the testing of leachate and not the leachate preparation stage which is unaccredited									



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Waste Acceptance Criteria Analytical Certificate									
DETS Report No: 24-12094		~Date Sampled	04/10/24				Landfill Waste Acceptance Criteria Limits		
Paddock Geo Engineering Ltd		~Time Sampled	None Supplied				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS		~TP / BH No	WAC2						
~Project / Job Ref: None Supplied		~Additional Refs	None Supplied						
~Order No: None Supplied		~Depth (m)	None Supplied						
Reporting Date: 17/10/2024		DETS Sample No	743325						
Determinand	Unit	MDL							
TOC ^{MU}	%	< 0.1	4.9				3%	5%	6%
Loss on Ignition ^{MU}	%	< 0.01	12.10				--	--	10%
BTEX ^{MU}	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil ^{MU}	mg/kg	< 10	< 10				500	--	--
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7				100	--	--
pH ^{MU}	pH Units	N/a	7.0				--	--	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1				--	To be evaluated	To be evaluated
Eluate Analysis			10:1 mg/l			Cumulative 10:1 * mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U			0.0008			0.008	0.5	2	25
Barium ^U			0.0060			0.060	20	100	300
Cadmium ^U			< 0.0002			< 0.002	0.04	1	5
Chromium ^U			0.0004			0.004	0.5	10	70
Copper ^U			0.0088			0.088	2	50	100
Mercury ^U			< 0.00004			< 0.0004	0.01	0.2	2
Molybdenum ^U			0.0003			0.003	0.5	10	30
Nickel ^U			0.0012			0.012	0.4	10	40
Lead ^U			0.0005			0.005	0.5	10	50
Antimony ^U			< 0.0002			< 0.002	0.06	0.7	5
Selenium ^U			< 0.0002			< 0.002	0.1	0.5	7
Zinc ^U			0.009			0.08	4	50	200
Chloride ^U			< 1.0			< 10	800	15000	25000
Fluoride ^U			< 0.5			< 5	10	150	500
Sulphate ^U			1.9			19	1000	20000	50000
TDS			65			650	4000	60000	100000
Phenol Index ^U			< 0.01			< 0.1	1	-	-
DOC ^U			7.8			78.4	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.13						
Dry Matter (%)			68.8						
Moisture (%)			45.4						
Stage 1									
Volume Eluate L10 (litres)			0.86						
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion Stated limits are for guidance only and Normec DETS Limited cannot be held responsible for any discrepancies with current legislation M Denotes MCERTS accredited test U Denotes ISO17025 accredited test ~Sample details provided by customer and can affect the validity of results * DETS are accredited for the testing of leachate and not the leachate preparation stage which is unaccredited									

Waste Acceptance Criteria Analytical Certificate									
DETS Report No: 24-12094		~Date Sampled	04/10/24				Landfill Waste Acceptance Criteria Limits		
Paddock Geo Engineering Ltd		~Time Sampled	None Supplied				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS		~TP / BH No	WAC3						
~Project / Job Ref: None Supplied		~Additional Refs	None Supplied						
~Order No: None Supplied		~Depth (m)	None Supplied						
Reporting Date: 17/10/2024		DETS Sample No	743326						
Determinand	Unit	MDL							
TOC ^{MU}	%	< 0.1	2.8				3%	5%	6%
Loss on Ignition ^{MU}	%	< 0.01	7.60				--	--	10%
BTEX ^{MU}	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil ^{MU}	mg/kg	< 10	< 10				500	--	--
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7				100	--	--
pH ^{MU}	pH Units	N/a	7.5				--	--	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1				--	To be evaluated	To be evaluated
Eluate Analysis			10:1 mg/l			Cumulative 10:1 * mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U		0.0005				0.005	0.5	2	25
Barium ^U		0.0167				0.167	20	100	300
Cadmium ^U		< 0.0002				< 0.002	0.04	1	5
Chromium ^U		0.0002				0.002	0.5	10	70
Copper ^U		0.0093				0.093	2	50	100
Mercury ^U		< 0.00004				< 0.0004	0.01	0.2	2
Molybdenum ^U		0.0005				0.005	0.5	10	30
Nickel ^U		0.0013				0.013	0.4	10	40
Lead ^U		0.0003				0.003	0.5	10	50
Antimony ^U		< 0.0002				< 0.002	0.06	0.7	5
Selenium ^U		< 0.0002				< 0.002	0.1	0.5	7
Zinc ^U		0.008				0.08	4	50	200
Chloride ^U		< 1.0				< 10	800	15000	25000
Fluoride ^U		< 0.5				< 5	10	150	500
Sulphate ^U		1.6				16	1000	20000	50000
TDS		106				1060	4000	60000	100000
Phenol Index ^U		< 0.01				< 0.1	1	-	-
DOC ^U		15				150	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.11						
Dry Matter (%)			78.5						
Moisture (%)			27.4						
Stage 1									
Volume Eluate L10 (litres)			0.88						
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion									
Stated limits are for guidance only and Normec DETS Limited cannot be held responsible for any discrepancies with current legislation									
M Denotes MCERTS accredited test									
U Denotes ISO17025 accredited test									
~Sample details provided by customer and can affect the validity of results									
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Waste Acceptance Criteria Analytical Certificate									
DETS Report No: 24-12094		~Date Sampled	04/10/24				Landfill Waste Acceptance Criteria Limits		
Paddock Geo Engineering Ltd		~Time Sampled	None Supplied				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS		~TP / BH No	WAC4						
~Project / Job Ref: None Supplied		~Additional Refs	None Supplied						
~Order No: None Supplied		~Depth (m)	None Supplied						
Reporting Date: 17/10/2024		DETS Sample No	743327						
Determinand	Unit	MDL							
TOC ^{MU}	%	< 0.1	3.3				3%	5%	6%
Loss on Ignition ^{MU}	%	< 0.01	10.90				--	--	10%
BTEX ^{MU}	mg/kg	< 0.05	< 0.05				6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1				1	--	--
Mineral Oil ^{MU}	mg/kg	< 10	< 10				500	--	--
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7				100	--	--
pH ^{MU}	pH Units	N/a	7.4				--	--	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1				--	To be evaluated	To be evaluated
Eluate Analysis			10:1 mg/l			Cumulative 10:1 * mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U			0.0008			0.008	0.5	2	25
Barium ^U			0.0105			0.105	20	100	300
Cadmium ^U			< 0.0002			< 0.002	0.04	1	5
Chromium ^U			0.0004			0.004	0.5	10	70
Copper ^U			0.0085			0.085	2	50	100
Mercury ^U			< 0.00004			< 0.0004	0.01	0.2	2
Molybdenum ^U			0.0006			0.006	0.5	10	30
Nickel ^U			0.0012			0.012	0.4	10	40
Lead ^U			0.0007			0.007	0.5	10	50
Antimony ^U			< 0.0002			< 0.002	0.06	0.7	5
Selenium ^U			< 0.0002			< 0.002	0.1	0.5	7
Zinc ^U			0.008			0.08	4	50	200
Chloride ^U			< 1.0			< 10	800	15000	25000
Fluoride ^U			< 0.5			< 5	10	150	500
Sulphate ^U			1.2			12	1000	20000	50000
TDS			67			670	4000	60000	100000
Phenol Index ^U			< 0.01			< 0.1	1	-	-
DOC ^U			12.3			123	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.12						
Dry Matter (%)			72.5						
Moisture (%)			38						
Stage 1									
Volume Eluate L10 (litres)			0.87						
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion Stated limits are for guidance only and Normec DETS Limited cannot be held responsible for any discrepancies with current legislation M Denotes MCERTS accredited test U Denotes ISO17025 accredited test ~Sample details provided by customer and can affect the validity of results * DETS are accredited for the testing of leachate and not the leachate preparation stage which is unaccredited									



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 24-12094
Paddock Geo Engineering Ltd
~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS
~Project / Job Ref: None Supplied
~Order No: None Supplied
Reporting Date: 17/10/2024

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
743310	WS01	None Supplied	0.50	23	Brown clay
743311	WS02	None Supplied	0.10	29.1	Brown clay
743312	WS03	None Supplied	0.10	37.3	Brown sandy clay
743313	WS04	None Supplied	0.10	29	Brown sandy clay
743314	WS05	None Supplied	0.10	31.6	Brown sandy clay
743315	WS06	None Supplied	0.10	25.6	Brown sandy clay
743316	SA04	None Supplied	0.10	29.5	Brown sandy clay with vegetation
743317	WS07	None Supplied	0.50	21.9	Brown clay
743318	WS08	None Supplied	0.90	18.2	Brown clay
743319	WS09	None Supplied	0.60	18.5	Brown clay
743322	SA01	None Supplied	0.10	29.9	Brown sandy clay
743323	DCP01	None Supplied	0.40	19.7	Brown sandy clay
743324	WAC1	None Supplied	None Supplied	24.3	Brown sandy clay
743325	WAC2	None Supplied	None Supplied	31.2	Brown clay
743326	WAC3	None Supplied	None Supplied	21.5	Brown clay with brick
743327	WAC4	None Supplied	None Supplied	27.5	Brown clay with vegetation
743328	WS01	None Supplied	1.50	19.4	Light grey clay
743329	WS02	None Supplied	0.70	16.7	Brown clay
743330	WS02	None Supplied	1.70	22.1	Brown clay
743331	WS03	None Supplied	0.50	23.8	Brown clay
743332	WS03	None Supplied	2.50	19.1	Grey clay
743333	WS04	None Supplied	2.10	20.5	Grey clay
743334	WS05	None Supplied	1.30	15.8	Brown clay
743335	WS06	None Supplied	1.00	22.4	Brown clay
743336	WS06	None Supplied	2.00	19.8	Brown clay
743337	WS07	None Supplied	0.80	21	Brown clay
743338	WS07	None Supplied	1.80	17.2	Brown clay
743340	WS09	None Supplied	1.70	20.2	Brown clay
743341	WS09	None Supplied	2.70	22.2	Brown clay
743342	SA02	None Supplied	0.50	16.9	Brown clay
743344	SA05	None Supplied	2.00	23.5	Grey sandy clay

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

Insufficient Sample ^{1/5}

Unsuitable Sample ^{1/5}

& samples received in inappropriate containers for hydrocarbon analysis



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Soil Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 24-12094	
Paddock Geo Engineering Ltd	
~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS	
~Project / Job Ref: None Supplied	
~Order No: None Supplied	
Reporting Date: 17/10/2024	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 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

~Sample details provided by customer and can affect the validity of results



Normec DETS Limited
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: 24-12094

Paddock Geo Engineering Ltd

~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS

~Project / Job Ref: None Supplied

~Order No: None Supplied

Reporting Date: 17/10/2024

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	F	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	UF	Biological Oxygen Demand (BOD)	Determination using BOD sensors measuring the change of pressure	E133
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 diphenylcarbazide 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 detection	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 followed by GC-MS	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

~Sample details provided by customer and can affect the validity of results

Parameter	Matrix Type	Expanded Uncertainty Measurement	Unit
TOC	Soil	12.2	%
Loss on Ignition	Soil	22.9	%
BTEX	Soil	11.2	%
Sum of PCBs	Soil	43.4	%
Mineral Oil	Soil	9.0	%
Total PAH	Soil	18.5	%
pH	Soil	0.335	Units
Acid Neutralisation Capacity	Soil	18.0	%
Clay Content	Soil	15.0	%
Silt Content	Soil	14.0	%
Sand Content	Soil	13.0	%
Loss on Ignition	Soil	22.9	%
pH	Soil	0.335	Units
Carbonate	Soil	12.0	%
Total Nitrogen	Soil	12.0	%
Phosphorus (Extractable)	Soil	24.0	%
Potassium (Extractable)	Soil	20.0	%
Magnesium (Extractable)	Soil	26.0	%
Zinc	Soil	21.6	%
Copper	Soil	18.2	%
Nickel	Soil	24.3	%
Available Sodium	Soil	23.0	%
Available Calcium	Soil	23.0	%
Electrical Conductivity	Soil	10.0	%

**Human Health Generic Contamination Risk Assessment - Land West of Bliss Farm, Trowbridge, BA14 6DS
(12 Samples)**

Determinand	Units	Reported Determinand Range	Assessment Criteria Residential with Home Grown Produce Concentration (cc)	Individual Samples Exceeding Assessment criteria? [Y/N?]	Exceeding Samples
Metals/Metaloids					
Arsenic	mg kg ⁻¹	14 - 25	37.0		
Beryllium	mg kg ⁻¹	0.8 - 1.5	1.7		
Cadmium	mg kg ⁻¹	0.2 - 0.7	11.0		
Chromium	mg kg ⁻¹	19 - 36	910		
Inorganic Mercury	mg kg ⁻¹	1 - 1	40.0		
Nickel	mg kg ⁻¹	24 - 57	180		
Lead	mg kg ⁻¹	16 - 97	190		
Selenium	mg kg ⁻¹	2 - 2	250		
Copper	mg kg ⁻¹	13 - 49	2400		
Zinc	mg kg ⁻¹	38 - 69	3700		
Vanadium	mg kg ⁻¹	72 - 150	410		

Phytotoxic Metals (Phytotoxicity)					
Copper	mg kg ⁻¹	13 - 49	111		
Zinc	mg kg ⁻¹	72 - 150	330		

Hydrocarbons					
Total Petroleum Hydrocarbons					
TPH EC6-EC10 (PRO)	mg kg ⁻¹	N/A	65		
TPH EC10-EC21 (DRO)	mg kg ⁻¹	N/A	300		
TPH EC21-EC40 (Min.Oil)	mg kg ⁻¹	N/A	1500		
Total TPH	mg kg ⁻¹	6 - 6	600		
Poly Aromatic Hydrocarbons					
Benzo(a)anthracene	mg kg ⁻¹	0.1 - 0.17	11.00		
Benzo(b)fluoranthene	mg kg ⁻¹	0.1 - 0.18	3.30		
Benzo(a)pyrene	mg kg ⁻¹	0.1 - 0.18	2.70		
Napthalene	mg kg ⁻¹	0.1 - 0.1	5.60		
Dibenzo(a,h) anthracene	mg kg ⁻¹	0.1 - 0.1	0.28		
Flourene	mg kg ⁻¹	0.1 - 0.1	400.00		
Phenols	mg kg ⁻¹	NE	420.00		

OTHER					
pH	-	6.1 - 8	<5, >12		
Sulphur	mg kg ⁻¹	N/A	2500		
Water Soluble Boron	mg kg ⁻¹	1 - 2.6	290		
Asbestos Screen	Detection	Not Detected	Not Detected		
Asbestos Quantification	%				

NOTE:

na - Not applicable

ne - Not evaluated, all results below the appropriate guideline level

nc - not displayed as results are not meaningful due to large uncertainty from small data set

GENERIC HUMAN HEALTH SCREENING TOTAL SOIL CONCENTRATION ASSESSMENT CRITERIA (GAC)

DETERMINAND		RESIDENTIAL (mg/kg)		COMMERCIAL (mg/kg)
Chemical	GAC Sources and units	With Home Grown produce	Without Home Grown produce	
Asbestos Screen & ID*	-	Detected	Detected	Detected
Cyanide - Total	SNIFFER	53.25	53.25	53.25
Cyanide - Free	SNIFFER	53.25	53.25	53.25
Loss on Ignition @ 450°C	-	-	-	-
Sulphate (as SO ₄) - Total	BRE****	2400	2400	2400
Sulphide	ICRCL	2500	2500	2500
Sulphur - Total	ICRCL	2500	2500	2500
Phenol (Total Monohydric)	CLEA	420	420	3200
pH	ICRCL	<5,>12	<5,>12	-
Metals and Metalloids (CLEA Metals)				
Arsenic	LQM S4UL	37	40	640
Beryllium	LQM S4UL	1.7	1.7	12
Cadmium	LQM S4UL	11	85	190
Chromium III	LQM S4UL	910	910	8600
Lead	DEFRA C4SL	190	310	2300
Mercury (Total)	LQM S4UL (Inorganic)	40	56	1100
Selenium	LQM S4UL	250	430	12000
Copper (phytotoxicity)	LQM S4UL	2400 (111)	7100	68000
Nickel	LQM S4UL	180	180	980
Zinc (phytotoxicity)	LQM S4UL	3700 (330)	40000	730000
Vanadium	LQM S4UL	410	1200	9000
Boron - Water Soluble	LQM S4UL	290	11000	240000
Total Petroleum Hydrocarbons**				
TPH (EC6-EC10) - PRO	LQM S4UL (2.5% SOM)	65	100	4800
TPH (EC10-EC21) - DRO	LQM S4UL (2.5% SOM)	300	600	23000
TPH (EC21-EC40) - Min. Oil	LQM S4UL (2.5% SOM)	1500	1900	28000
Total TPH (EC10-EC40)	LQM S4UL (2.5% SOM)	600	900	23000
Polycyclic Aromatic Hydrocarbons***				
Benzo(a)anthracene	LQM S4UL (2.5% SOM)	11	14	170
Benzo(b)fluoranthene	LQM S4UL (2.5% SOM)	3.3	4	44
Naphthalene	LQM S4UL (2.5% SOM)	5.6	5.6	460
Flourene	LQM S4UL (2.5% SOM)	400	3800	68000
Benzo[a]pyrene	LQM S4UL (2.5% SOM)	2.7	3.2	35
Dibenzo[a,h]anthracene	LQM S4UL (2.5% SOM)	0.28	0.32	3.6

Notes

The Generic Assessment Criteria (GAC) are based on CLEA Soil Guidance Values published values and CIEH/LQM S4CLs where available or ICRCL, DoE, BRE and HSE levels where necessary. Where gaps remain GACs were calculated using the latest CLEA spreadsheet using DEFRA C4SL toxicology and physiochemical parameters from DEFRA SP1010.

* Guidance level set at any fibre identification.

** TPH 3 band is employed as a screening tool to instigate detailed speciated analysis to the TPHCWG methodology. Based on mean of fractions included

*** Testing based on USEPA Priority 16 compounds. GACs for four compounds and total PAH with published GACs only, used as a screening tool.

**** BRE SD1 - DS-1 Concrete Sulphate Design Class limit. Sulphate is not considered to pose a significant risk to human health under normal circumstances.

CLIENT:

Hills Homes Developments Ltd

PROJECT No:

P24-286

PROJECT TITLE:

Land West of Bliss Farm, Trowbridge, BA14
6DS

APPENDIX D

Geotechnical Assessment Data

Geotechnical Laboratory Testing Results
LWD Data Plots



TEST REPORT
ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 22/10/2024



Contract	Land West of Bliss Farm, Trowbridge		
Serial No.	45916_1		
Client: Paddock Geo Engineering The Log Cabin, Manor Farm, Whaddon Road, Newton Longville, Milton Keynes, MK17 0AU		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: Paddock Geo Engineering Samples Labelled: Land West of Bliss Farm, Trowbridge		Approved Signatories: ☒ J.C. Garner B.Eng (Hons) FGS Technical Director & Quality Manager ☐ W. Johnstone Materials Lab Manager 	
Date Received: 11/10/2024		Samples Tested Between: 11/10/2024 and 22/10/2024	
Remarks: For the attention of Matt Paddock Your Reference No: P24-286			
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: 22/10/2024



Contract		Land West of Bliss Farm, Trowbridge																							
Serial No.		45916_1										Target Date		25/10/2024											
Scheduled By		Paddock Geo Engineering																							
Schedule Remarks																									
Bore Hole No.	Type	Sample Ref.	Top Depth	Water Content (BS EN) Liquid/Plastic Limits Wet Sieve Preparation																					Sample Remarks
SA01	D	-	1.00	1	1																				
SA02	D	-	0.80	1	1																				
SA03	D	-	0.50	1	1																				
SA04	D	-	1.10	1	1																				
SA05	D	-	1.00	1	1																				
WS01	D	-	1.00	1	1																				
WS02	D	-	1.20	1	1																				
WS03	D	-	2.00	1	1	1																			
WS04	D	-	2.80	1	1																				
WS05	D	-	2.30	1	1																				
WS06	D	-	1.50	1	1																				
WS07	D	-	1.30	1	1	1																			
WS08	D	-	1.80	1	1																				
WS09	D	-	2.70	1	1																				
Totals				14	14	2																	End of Schedule		



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 22/10/2024



Contract		Land West of Bliss Farm, Trowbridge												
Serial No.		45916_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)		
SA01	1.00	D	-	50.6	113	38	75	0.17	From Natural	0 (A)		26	Firm mottled greyish brown and light olive brown CLAY with rare recently active roots	CE
SA02	0.80	D	-	25.0	63	22	41	0.07	From Natural	0 (A)		26	Stiff mottled grey and light olive brown CLAY	CH
SA03	0.50	D	-	22.1	69	24	45	-0.04	From Natural	0 (A)		27	Very stiff mottled grey, dark yellowish brown and light olive brown CLAY with rare recently active roots	CH
SA04	1.10	D	-	25.4	61	22	39	0.09	From Natural	0 (A)		24	Firm mottled dark grey and olive brown CLAY with rare calcareous aggregations	CH
SA05	1.00	D	-	27.9	36	16	20	0.60	From Natural	0 (A)		24	Very soft mottled grey and light olive brown silty CLAY	CI
WS01	1.00	D	-	26.6	64	24	40	0.07	From Natural	0 (A)		24	Stiff mottled grey and light olive brown CLAY with rare calcareous aggregations	CH
WS02	1.20	D	-	22.7	48	19	29	0.13	From Natural	0 (A)		24	Stiff mottled grey and light olive brown silty CLAY with rare calcareous aggregations	CI
WS03	2.00	D	-	21.3	41	16	25	0.21	Wet Sieved	16 (M)	25.4*	71	Firm mottled dark grey and olive brown CLAY with frequent calcareous aggregations	CI
Method Of Preparation:				BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:4.2										
Method of Test:				BS EN ISO: 17892-1: 2014+A1:2022 & 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										



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Contract	Land West of Bliss Farm, Trowbridge
Serial No.	45916_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)		
WS04	2.80	D	-	24.0	55	22	33	0.06	From Natural	0 (A)		24	Stiff mottled grey and olive brown CLAY	CH
WS05	2.30	D	-	23.8	57	23	34	0.02	From Natural	0 (A)		24	Stiff mottled dark grey and olive brown CLAY with occasional selenite crystals	CH
WS06	1.50	D	-	29.5	72	24	48	0.11	From Natural	0 (A)		24	Firm mottled grey, brownish yellow and light olive brown CLAY	CV
WS07	1.30	D	-	15.9	38	15	23	0.04	Wet Sieved	46 (M)	29.5*	24	Stiff mottled grey and yellowish brown silty CLAY with frequent calcareous aggregations	CI
WS08	1.80	D	-	22.6	59	23	36	-0.01	From Natural	0 (A)		27	Stiff olive brown CLAY with occasional selenite crystals	CH
WS09	2.70	D	-	25.1	59	24	35	0.03	From Natural	0 (A)		24	Stiff dark grey CLAY	CH

Method Of Preparation: BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:4.2
Method of Test: BS EN ISO: 17892-1: 2014+A1:2022 & 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

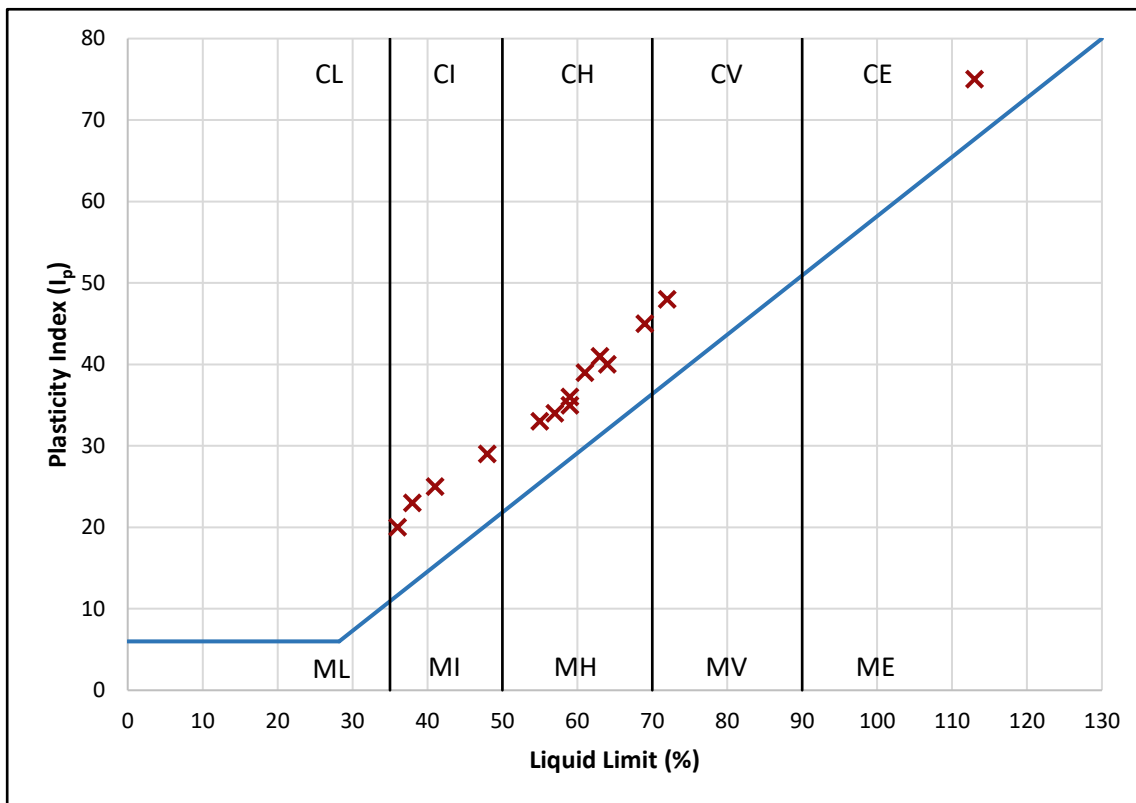
ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 22/10/2024



Contract	Land West of Bliss Farm, Trowbridge
Serial No.	45916_1

PLOT OF PLASTICITY INDEX AGAINST LIQUID LIMIT USING CASAGRANDE CLASSIFICATION CHART

Plasticity				
Low	Medium	High	Very High	Extremely High



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: 22/10/2024



Contract	Land West of Bliss Farm, Trowbridge						
Serial No.	45916_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	
SA01	1.00	D	-	50.6	Firm mottled greyish brown and light olive brown CLAY with rare recently active roots		
PREPARATION					Liquid Limit	113 %	
Method of preparation					From natural	Plastic Limit	38 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	75 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.17
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time		26 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) Plasticity Chart BS5930: 2015: Figure 8						High Medium Low NHBC Volume Change Potential	
Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2						Liquid Limit %	
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

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DATE ISSUED: 22/10/2024



Contract	Land West of Bliss Farm, Trowbridge						
Serial No.	45916_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	
SA02	0.80	D	-	25.0	Stiff mottled grey and light olive brown CLAY		
PREPARATION					Liquid Limit	63 %	
Method of preparation					From natural	Plastic Limit	22 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	41 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.07
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time		26 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: 22/10/2024

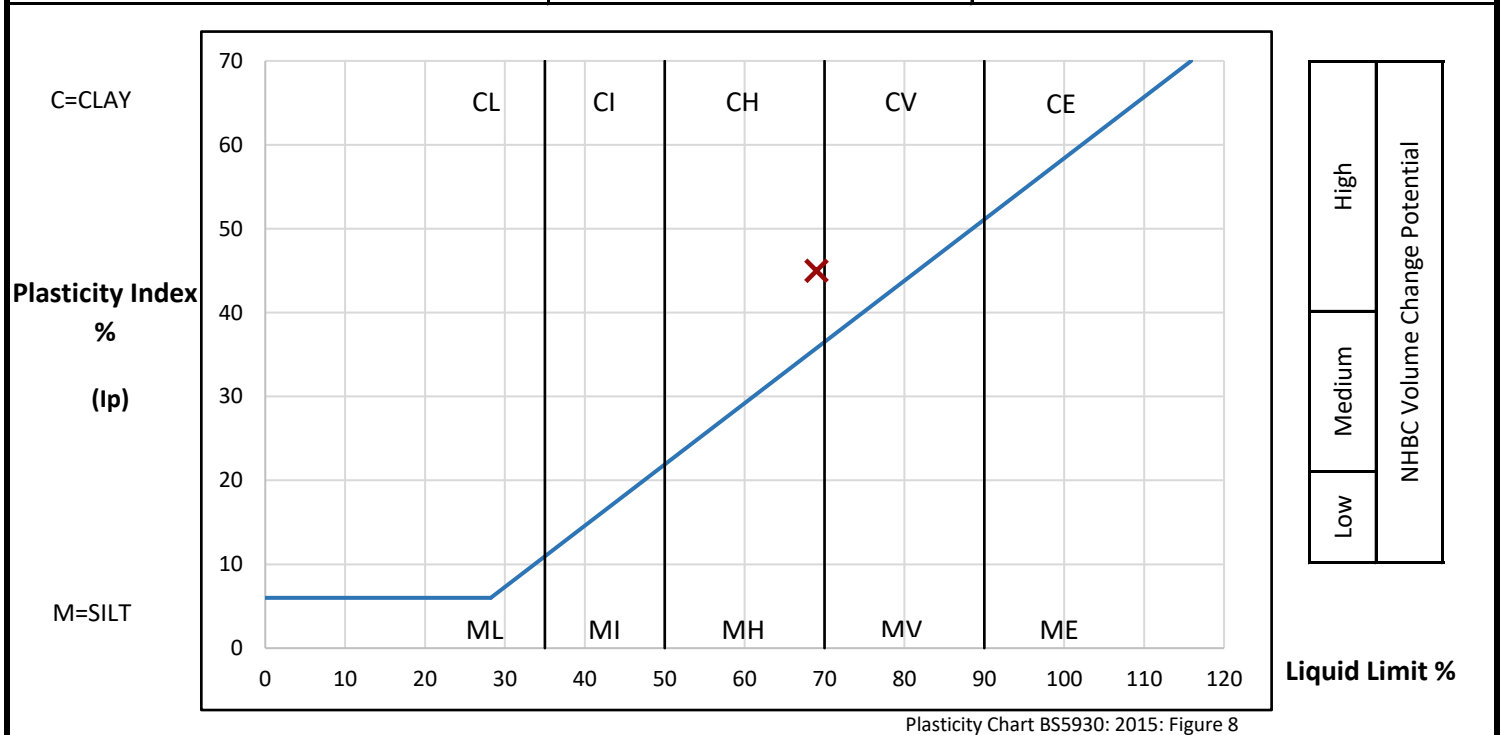


Contract	Land West of Bliss Farm, Trowbridge
Serial No.	45916_1

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			
SA03	0.50	D	-	22.1	Very stiff mottled grey, dark yellowish brown and light olive brown CLAY with rare recently active roots	

PREPARATION			Liquid Limit	69 %	
Method of preparation		From natural	Plastic Limit	24 %	
Sample retained 0.425mm sieve	(Assumed)	0 %	Plasticity Index	45 %	
Corrected water content for material passing 0.425mm			Liquidity Index	-0.04	
Sample retained 2mm sieve	(Assumed)	0 %	NHBC Modified (I'p)	n/a	
Curing time	27 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:	



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Contract	Land West of Bliss Farm, Trowbridge						
Serial No.	45916_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	
SA04	1.10	D	-	25.4	Firm mottled dark grey and olive brown CLAY with rare calcareous aggregations		
PREPARATION					Liquid Limit	61 %	
Method of preparation					From natural	Plastic Limit	22 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	39 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.09
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) Plasticity Chart BS5930: 2015: Figure 8							

High

Medium

Low

NHBC Volume Change Potential

Liquid Limit %



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Contract	Land West of Bliss Farm, Trowbridge						
Serial No.	45916_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	
SA05	1.00	D	-	27.9	Very soft mottled grey and light olive brown silty CLAY		
PREPARATION					Liquid Limit	36 %	
Method of preparation					From natural	Plastic Limit	16 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	20 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.60
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) 70 60 50 40 30 20 10 0 0102030405060708090100110120 CLCI CHCVCE MLMI 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:							



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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	
WS01	1.00	D	-	26.6	Stiff mottled grey and light olive brown CLAY with rare calcareous aggregations		
PREPARATION					Liquid Limit	64 %	
Method of preparation					From natural	Plastic Limit	24 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	40 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.07
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) Plasticity Chart BS5930: 2015: Figure 8							

High

Medium

Low

NHBC Volume Change Potential

Liquid Limit %



TEST REPORT

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Serial No.	45916_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	
WS02	1.20	D	-	22.7	Stiff mottled grey and light olive brown silty CLAY with rare calcareous aggregations		
PREPARATION					Liquid Limit	48 %	
Method of preparation					From natural	Plastic Limit	19 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	29 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.13
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) Plasticity Chart BS5930: 2015: Figure 8						High Medium Low NHBC Volume Change Potential	
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:							



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Contract	Land West of Bliss Farm, Trowbridge						
Serial No.	45916_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	
WS03	2.00	D	-	21.3	Firm mottled dark grey and olive brown CLAY with frequent calcareous aggregations		
PREPARATION					Liquid Limit	41 %	
Method of preparation					Wet sieved over 0.425mm sieve	Plastic Limit	16 %
Sample retained 0.425mm sieve (Measured)					16 %	Plasticity Index	25 %
Corrected water content for material passing 0.425mm					25.4 %	Liquidity Index	0.21
Sample retained 2mm sieve (Measured)					10 %	NHBC Modified (I'p)	21 %
Curing time		71 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) Plasticity Chart BS5930: 2015: Figure 8						High Medium Low NHBC Volume Change Potential	
Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2						Liquid Limit %	
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)							



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Serial No.	45916_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	
WS04	2.80	D	-	24.0	Stiff mottled grey and olive brown CLAY		
PREPARATION					Liquid Limit	55 %	
Method of preparation					From natural	Plastic Limit	22 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	33 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.06
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) Plasticity Chart BS5930: 2015: Figure 8							

High

Medium

Low

NHBC Volume Change Potential

Liquid Limit %



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Borehole / Pit No.	Depth m	Sample TypeReference		Water Content (W) %	Description	Remarks	
WS05	2.30	D	-	23.8	Stiff mottled dark grey and olive brown CLAY with occasional selenite crystals	Specimen dried at 50°C due to the presence of selenite.	
PREPARATION					Liquid Limit	57 %	
Method of preparation					From natural	Plastic Limit	23 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	34 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.02
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



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Serial No.	45916_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	
WS06	1.50	D	-	29.5	Firm mottled grey, brownish yellow and light olive brown CLAY		
PREPARATION					Liquid Limit	72 %	
Method of preparation					From natural	Plastic Limit	24 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	48 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.11
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) Plasticity Chart BS5930: 2015: Figure 8							

High

Medium

Low

NHBC Volume Change Potential

Liquid Limit %



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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	
WS07	1.30	D	-	15.9	Stiff mottled grey and yellowish brown silty CLAY with frequent calcareous aggregations		
PREPARATION					Liquid Limit	38 %	
Method of preparation					Wet sieved over 0.425mm sieve	Plastic Limit	15 %
Sample retained 0.425mm sieve (Measured)					46 %	Plasticity Index	23 %
Corrected water content for material passing 0.425mm					29.5 %	Liquidity Index	0.04
Sample retained 2mm sieve (Measured)					27 %	NHBC Modified (I'p)	12 %
Curing time			24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) 70 60 50 40 30 20 10 0 0102030405060708090100110120 CLCI CHCVCE MLMI 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:						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)	



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Serial No.	45916_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	
WS08	1.80	D	-	22.6	Stiff olive brown CLAY with occasional selenite crystals	Specimen dried at 50°C due to the presence of selenite.	
PREPARATION					Liquid Limit	59 %	
Method of preparation					From natural	Plastic Limit	23 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	36 %
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		27 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) 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:							



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Serial No.	45916_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	
WS09	2.70	D	-	25.1	Stiff dark grey CLAY		
PREPARATION					Liquid Limit	59 %	
Method of preparation					From natural	Plastic Limit	24 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	35 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.03
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

Lightweight Falling Deflectometer - IAN73/06 rev1

Location: Unnamed

Weather: Clear
Engineer: AA

Test Result **Date of test :** 03/10/2024

Location	Material Tested	Longitude	Latitude	Corrected Avg	CRP%
----------	-----------------	-----------	----------	---------------	------

Location	Material Tested	Longitude	Latitude	(MN/m2)	CBR%
1	Clay	-2.185869	51.315536	31	2.4

[illegible]

CBR Calculated from equation in Section 4; Chapter 5, Para 5.11
Tested using Minidyn LWD Serial No: MIN-230-G

Plate Diameter: 300mm Poissons Ratio: 0.35



Client: Hill Homes Group

	Project No: P24-286 Project: Land West of Bliss Farm,
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	Trowbridge, BA14 6DS
--	----------------------

Project No: P24-286
Project: Land West of Bliss Farm,

Trowbidge, BA14 6DS

APPENDIX E

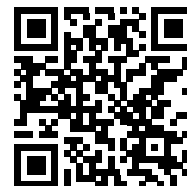
Soil Waste Classification Data

Hazwaste Online Classification Report
Chemical Analysis Reports (Waste Acceptance Criteria Testing)

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



ABFXZ-P7CMX-BL19U

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

Job name

Land West of Bliss Farm, Trowbidge, BA14 6DS

Description/Comments

Project

P24-286

Site

Land West of Bliss Farm, Trowbidge, BA14 6DS

Classified by

Name: **Matthew Paddock**
Date: **23 Oct 2024 13:58 GMT**
Telephone: **01908 271366**
Company: **Paddock Geo Engineering**
The Annex, 14 Burns Road,
Milton Keynes,
MK3 5A

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

-

Course

Hazardous Waste Classification

Date

-

Purpose of classification

2 - Material Characterisation

Address of the waste

Land West of Bliss Farm, Trowbidge, BA14 6DS

Post Code BA14 6DS

SIC for the process giving rise to the waste

41202 Construction of domestic buildings

Description of industry/producer giving rise to the waste

Excavation of footings

Description of the specific process, sub-process and/or activity that created the waste

general site strip and excavation of foundation trenches

Description of the waste

soil and stones

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WAC1		Non Hazardous		3
2	WAC2		Non Hazardous		5
3	WAC3		Non Hazardous		7
4	WAC4		Non Hazardous		9

Related documents

#	Name	Description
1	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Matthew Paddock

Created date: 23 Oct 2024 13:58 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	11
Appendix B: Rationale for selection of metal species	12
Appendix C: Version	13

Classification of sample: WAC1

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name: **WAC1** LoW Code: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Chapter: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Entry:

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.6	mg/kg	1.197	3.112	mg/kg	0.000311 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				18	mg/kg	1.32	23.766	mg/kg	0.00238 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				1	mg/kg	2.775	2.775	mg/kg	0.000278 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	boron { diboron trioxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
5	cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.457	mg/kg	0.0000457 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22	mg/kg	1.462	32.154	mg/kg	0.00322 %	✓	
		215-160-9	1308-38-9									
7	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
8	copper { dicopper oxide; copper (I) oxide }				16	mg/kg	1.126	18.014	mg/kg	0.0018 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
9	lead { lead chromate }			1	34	mg/kg	1.56	53.034	mg/kg	0.0034 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
10	manganese { manganese sulphate }				446	mg/kg	2.749	1225.859	mg/kg	0.123 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
11	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
12	molybdenum { molybdenum(VI) oxide }				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
13	nickel { nickel chromate }				25	mg/kg	2.976	74.407	mg/kg	0.00744 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
14	selenium { nickel selenate }				<2	mg/kg	2.554	<5.108	mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
15	zinc { zinc chromate }				83	mg/kg	2.774	230.254	mg/kg	0.023 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
16	TPH (C6 to C40) petroleum group				<6	mg/kg		<6	mg/kg	<0.0006 %		<LOD
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
17	• pH		PH		7.3 pH		7.3 pH	7.3 pH		
18	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
19	• acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
20	• acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
21	• fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
22	• phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
23	• anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
24	• fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
25	• pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
26	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
27	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
29	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
30	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
31	• indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
32	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
33	• benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
Total:								0.167 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WAC2

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name: **WAC2** LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				3.8	mg/kg	1.197	4.549	mg/kg	0.000455 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				23	mg/kg	1.32	30.367	mg/kg	0.00304 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				1.4	mg/kg	2.775	3.885	mg/kg	0.000389 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	boron { diboron trioxide }				1.8	mg/kg	3.22	5.796	mg/kg	0.00058 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
5	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				32	mg/kg	1.462	46.77	mg/kg	0.00468 %	✓	
		215-160-9	1308-38-9									
7	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
8	copper { dicopper oxide; copper (I) oxide }				29	mg/kg	1.126	32.651	mg/kg	0.00327 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
9	lead { lead chromate }			1	65	mg/kg	1.56	101.388	mg/kg	0.0065 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
10	manganese { manganese sulphate }				958	mg/kg	2.749	2633.124	mg/kg	0.263 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
11	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
12	molybdenum { molybdenum(VI) oxide }				1.2	mg/kg	1.5	1.8	mg/kg	0.00018 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
13	nickel { nickel chromate }				40	mg/kg	2.976	119.051	mg/kg	0.0119 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
14	selenium { nickel selenate }				<2	mg/kg	2.554	<5.108	mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
15	zinc { zinc chromate }				129	mg/kg	2.774	357.865	mg/kg	0.0358 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
16	TPH (C6 to C40) petroleum group				<6	mg/kg		<6	mg/kg	<0.0006 %		<LOD
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
17	● pH		PH		7 pH		7 pH	7pH		
18	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
19	● acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
20	● acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
21	● fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
22	● phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
23	● anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
24	● fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
25	● pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
26	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
27	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
29	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
30	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
31	● indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
32	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
33	● benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
Total:								0.332 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
●	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WAC3

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name: **WAC3** LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				3.6	mg/kg	1.197	4.31	mg/kg	0.000431 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				18	mg/kg	1.32	23.766	mg/kg	0.00238 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				1	mg/kg	2.775	2.775	mg/kg	0.000278 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	boron { diboron trioxide }				1.1	mg/kg	3.22	3.542	mg/kg	0.000354 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
5	cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.457	mg/kg	0.0000457 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25	mg/kg	1.462	36.539	mg/kg	0.00365 %	✓	
		215-160-9	1308-38-9									
7	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
8	copper { dicopper oxide; copper (I) oxide }				35	mg/kg	1.126	39.406	mg/kg	0.00394 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
9	lead { lead chromate }			1	56	mg/kg	1.56	87.35	mg/kg	0.0056 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
10	manganese { manganese sulphate }				473	mg/kg	2.749	1300.071	mg/kg	0.13 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
11	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
12	molybdenum { molybdenum(VI) oxide }				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
13	nickel { nickel chromate }				29	mg/kg	2.976	86.312	mg/kg	0.00863 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
14	selenium { nickel selenate }				<2	mg/kg	2.554	<5.108	mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
15	zinc { zinc chromate }				111	mg/kg	2.774	307.93	mg/kg	0.0308 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
16	TPH (C6 to C40) petroleum group				<6	mg/kg		<6	mg/kg	<0.0006 %		<LOD
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
17	● pH		PH		7.5 pH		7.5 pH	7.5 pH		
18	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
19	● acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
20	● acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
21	● fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
22	● phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
23	● anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
24	● fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
25	● pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
26	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
27	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
29	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
30	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
31	● indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
32	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
33	● benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
Total:								0.188 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
●	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WAC4

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name: **WAC4** LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.8	mg/kg	1.197	3.352	mg/kg	0.000335 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				20	mg/kg	1.32	26.407	mg/kg	0.00264 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				1.3	mg/kg	2.775	3.608	mg/kg	0.000361 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	boron { diboron trioxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
5	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				28	mg/kg	1.462	40.924	mg/kg	0.00409 %	✓	
		215-160-9	1308-38-9									
7	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
8	copper { dicopper oxide; copper (I) oxide }				26	mg/kg	1.126	29.273	mg/kg	0.00293 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
9	lead { lead chromate }			1	46	mg/kg	1.56	71.751	mg/kg	0.0046 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
10	manganese { manganese sulphate }				491	mg/kg	2.749	1349.545	mg/kg	0.135 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
11	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
12	molybdenum { molybdenum(VI) oxide }				1	mg/kg	1.5	1.5	mg/kg	0.00015 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
13	nickel { nickel chromate }				29	mg/kg	2.976	86.312	mg/kg	0.00863 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
14	selenium { nickel selenate }				<2	mg/kg	2.554	<5.108	mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
15	zinc { zinc chromate }				109	mg/kg	2.774	302.382	mg/kg	0.0302 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
16	TPH (C6 to C40) petroleum group				<6	mg/kg		<6	mg/kg	<0.0006 %		<LOD
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
17	• pH		PH		7.4 pH		7.4 pH	7.4 pH		
18	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
19	• acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
20	• acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
21	• fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
22	• phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
23	• anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
24	• fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
25	• pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
26	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
27	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
28	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
29	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
30	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
31	• indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
32	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
33	• benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
Total:								0.191 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

• **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

• **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

• **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

• **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

• **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

• **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

■ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

Worst case CLP species based on hazard statements/molecular weight and low solubility. Industrial sources include: flame retardants in electrical apparatus, textiles and coatings (edit as required)

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics (edit as required)

boron {diboron trioxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species based on hazard statements/molecular weight (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

manganese {manganese sulphate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

molybdenum {molybdenum(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**

HazWasteOnline Classification Engine Version: 2024.289.6294.11540 (15 Oct 2024)

HazWasteOnline Database: 2024.289.6294.11540 (15 Oct 2024)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

GB MCL List v2.0 - version 2.0 of 20th October 2023

GB MCL List v3.0 - version 3.0 of 11th January 2024

GB MCL List v4.0 - version 4.0 of 2nd March 2024

GB MCL List v5.0 - version 5.0 of 26th June 2024

Waste Acceptance Criteria Analytical Certificate

DETS Report No: 24-12094		~Date Sampled	04/10/24	Landfill Waste Acceptance Criteria Limits		
Paddock Geo Engineering Ltd		~Time Sampled	None Supplied			
~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS		~TP / BH No	WAC1			
~Project / Job Ref: None Supplied		~Additional Refs	None Supplied			
~Order No: None Supplied		~Depth (m)	None Supplied			
Reporting Date: 17/10/2024		DETS Sample No	743324			
Determinand	Unit	MDL				
TOC ^{MU}	%	< 0.1	2.3			
Loss on Ignition ^{MU}	%	< 0.01	7.90			
BTEX ^{MU}	mg/kg	< 0.05	< 0.05			
Sum of PCBs	mg/kg	< 0.1	< 0.1			
Mineral Oil ^{MU}	mg/kg	< 10	< 10			
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7			
pH ^{MU}	pH Units	N/a	7.3			
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1			

Eluate Analysis		10:1 mg/l			Cumulative 10:1 * mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U		0.0022			0.022	0.5	2	25
Barium ^U		0.0084			0.084	20	100	300
Cadmium ^U		< 0.0002			< 0.002	0.04	1	5
Chromium ^U		0.0009			0.009	0.5	10	70
Copper ^U		0.0083			0.083	2	50	100
Mercury ^U		< 0.00004			< 0.0004	0.01	0.2	2
Molybdenum ^U		0.0005			0.005	0.5	10	30
Nickel ^U		0.0020			0.020	0.4	10	40
Lead ^U		0.0013			0.013	0.5	10	50
Antimony ^U		< 0.0002			< 0.002	0.06	0.7	5
Selenium ^U		0.0002			0.002	0.1	0.5	7
Zinc ^U		0.010			0.10	4	50	200
Chloride ^U		< 1.0			< 10	800	15000	25000
Fluoride ^U		< 0.5			< 5	10	150	500
Sulphate ^U		4.6			46	1000	20000	50000
TDS		70			700	4000	60000	100000
Phenol Index ^U		< 0.01			< 0.1	1	-	-
DOC ^U		9.5			94.7	500	800	1000

Leach Test Information

Sample Mass (kg)		0.12						
Dry Matter (%)		75.7						
Moisture (%)		32.2						
Stage 1								
Volume Eluate L10 (litres)		0.87						

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion

Stated limits are for guidance only and Normec DETS Limited cannot be held responsible for any discrepancies with current legislation

M Denotes MCERTS accredited test

U Denotes ISO17025 accredited test

~Sample details provided by customer and can affect the validity of results

* DETS are accredited for the testing of leachate and not the leachate preparation stage which is unaccredited



Normec DETS Limited
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Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Waste Acceptance Criteria Analytical Certificate

DETS Report No: 24-12094		~Date Sampled	04/10/24				Landfill Waste Acceptance Criteria Limits		
Paddock Geo Engineering Ltd		~Time Sampled	None Supplied				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS		~TP / BH No	WAC2						
~Project / Job Ref: None Supplied		~Additional Refs	None Supplied						
~Order No: None Supplied		~Depth (m)	None Supplied						
Reporting Date: 17/10/2024		DETS Sample No	743325						
Determinand	Unit	MDL							
TOC ^{MU}	%	< 0.1	4.9						
Loss on Ignition ^{MU}	%	< 0.01	12.10						
BTEX ^{MU}	mg/kg	< 0.05	< 0.05						
Sum of PCBs	mg/kg	< 0.1	< 0.1						
Mineral Oil ^{MU}	mg/kg	< 10	< 10						
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7						
pH ^{MU}	pH Units	N/a	7.0						
Acid Neutralisation Capacity		mol/kg (+/-)	< 1	< 1					
Eluate Analysis			10:1 mg/l			Cumulative 10:1 * mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U		0.0008			0.008	0.5	2	25	
Barium ^U		0.0060			0.060	20	100	300	
Cadmium ^U		< 0.0002			< 0.002	0.04	1	5	
Chromium ^U		0.0004			0.004	0.5	10	70	
Copper ^U		0.0088			0.088	2	50	100	
Mercury ^U		< 0.00004			< 0.0004	0.01	0.2	2	
Molybdenum ^U		0.0003			0.003	0.5	10	30	
Nickel ^U		0.0012			0.012	0.4	10	40	
Lead ^U		0.0005			0.005	0.5	10	50	
Antimony ^U		< 0.0002			< 0.002	0.06	0.7	5	
Selenium ^U		< 0.0002			< 0.002	0.1	0.5	7	
Zinc ^U		0.009			0.08	4	50	200	
Chloride ^U		< 1.0			< 10	800	15000	25000	
Fluoride ^U		< 0.5			< 5	10	150	500	
Sulphate ^U		1.9			19	1000	20000	50000	
TDS		65			650	4000	60000	100000	
Phenol Index ^U	< 0.01			< 0.1	1	-	-		
DOC ^U	7.8			78.4	500	800	1000		
Leach Test Information									
Sample Mass (kg)			0.13						
Dry Matter (%)			68.8						
Moisture (%)			45.4						
Stage 1									
Volume Eluate L10 (litres)			0.86						

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion

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Waste Acceptance Criteria Analytical Certificate

DETS Report No: 24-12094		~Date Sampled	04/10/24	Landfill Waste Acceptance Criteria Limits																											
Paddock Geo Engineering Ltd		~Time Sampled	None Supplied																												
~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS		~TP / BH No	WAC3																												
~Project / Job Ref: None Supplied		~Additional Refs	None Supplied																												
~Order No: None Supplied		~Depth (m)	None Supplied																												
Reporting Date: 17/10/2024		DETS Sample No	743326																												
Determinand	Unit	MDL		<table><tr><td rowspan="10">Inert Waste Landfill</td><td rowspan="10">Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill</td><td rowspan="10">Hazardous Waste Landfill</td></tr><tr><td>3%</td><td>5%</td><td>6%</td></tr><tr><td>--</td><td>--</td><td>10%</td></tr><tr><td>6</td><td>--</td><td>--</td></tr><tr><td>1</td><td>--</td><td>--</td></tr><tr><td>500</td><td>--</td><td>--</td></tr><tr><td>100</td><td>--</td><td>--</td></tr><tr><td>--</td><td>>6</td><td>--</td></tr><tr><td>--</td><td>To be evaluated</td><td>To be evaluated</td></tr></table>	Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	3%	5%	6%	--	--	10%	6	--	--	1	--	--	500	--	--	100	--	--	--	>6	--	--	To be evaluated	To be evaluated
Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill																													
			3%					5%	6%																						
			--					--	10%																						
			6					--	--																						
			1					--	--																						
			500					--	--																						
			100					--	--																						
			--					>6	--																						
			--					To be evaluated	To be evaluated																						
			TOC ^{MU}	%	< 0.1	2.8																									
Loss on Ignition ^{MU}	%	< 0.01	7.60																												
BTEX ^{MU}	mg/kg	< 0.05	< 0.05																												
Sum of PCBs	mg/kg	< 0.1	< 0.1																												
Mineral Oil ^{MU}	mg/kg	< 10	< 10																												
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7																												
pH ^{MU}	pH Units	N/a	7.5																												
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1																												

Eluate Analysis		10:1 mg/l			Cumulative 10:1 * mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U		0.0005			0.005	0.5	2	25
Barium ^U		0.0167			0.167	20	100	300
Cadmium ^U		< 0.0002			< 0.002	0.04	1	5
Chromium ^U		0.0002			0.002	0.5	10	70
Copper ^U		0.0093			0.093	2	50	100
Mercury ^U		< 0.00004			< 0.0004	0.01	0.2	2
Molybdenum ^U		0.0005			0.005	0.5	10	30
Nickel ^U		0.0013			0.013	0.4	10	40
Lead ^U		0.0003			0.003	0.5	10	50
Antimony ^U		< 0.0002			< 0.002	0.06	0.7	5
Selenium ^U		< 0.0002			< 0.002	0.1	0.5	7
Zinc ^U		0.008			0.08	4	50	200
Chloride ^U		< 1.0			< 10	800	15000	25000
Fluoride ^U		< 0.5			< 5	10	150	500
Sulphate ^U		1.6			16	1000	20000	50000
TDS		106			1060	4000	60000	100000
Phenol Index ^U		< 0.01			< 0.1	1	-	-
DOC ^U		15			150	500	800	1000

Leach Test Information

Sample Mass (kg)		0.11						
Dry Matter (%)		78.5						
Moisture (%)		27.4						
Stage 1								
Volume Eluate L10 (litres)		0.88						

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion

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Tel : 01622 850410



Waste Acceptance Criteria Analytical Certificate

DETS Report No: 24-12094		~Date Sampled	04/10/24				Landfill Waste Acceptance Criteria Limits		
Paddock Geo Engineering Ltd		~Time Sampled	None Supplied				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
~Site Reference: P24-286 - Land West of /bliss Farm, Trowbridge, BA14 6DS		~TP / BH No	WAC4						
~Project / Job Ref: None Supplied		~Additional Refs	None Supplied						
~Order No: None Supplied		~Depth (m)	None Supplied						
Reporting Date: 17/10/2024		DETS Sample No	743327						
Determinand	Unit	MDL							
TOC ^{MU}	%	< 0.1	3.3						
Loss on Ignition ^{MU}	%	< 0.01	10.90						
BTEX ^{MU}	mg/kg	< 0.05	< 0.05						
Sum of PCBs	mg/kg	< 0.1	< 0.1						
Mineral Oil ^{MU}	mg/kg	< 10	< 10						
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7						
pH ^{MU}	pH Units	N/a	7.4						
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1						
Eluate Analysis				10:1 mg/l			Cumulative 10:1 * mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)	
Arsenic ^U		0.0008				0.008	0.5	2	25
Barium ^U		0.0105				0.105	20	100	300
Cadmium ^U		< 0.0002				< 0.002	0.04	1	5
Chromium ^U		0.0004				0.004	0.5	10	70
Copper ^U		0.0085				0.085	2	50	100
Mercury ^U		< 0.00004				< 0.0004	0.01	0.2	2
Molybdenum ^U		0.0006				0.006	0.5	10	30
Nickel ^U		0.0012				0.012	0.4	10	40
Lead ^U		0.0007				0.007	0.5	10	50
Antimony ^U		< 0.0002				< 0.002	0.06	0.7	5
Selenium ^U		< 0.0002				< 0.002	0.1	0.5	7
Zinc ^U		0.008				0.08	4	50	200
Chloride ^U		< 1.0				< 10	800	15000	25000
Fluoride ^U		< 0.5				< 5	10	150	500
Sulphate ^U		1.2				12	1000	20000	50000
TDS		67				670	4000	60000	100000
Phenol Index ^U	< 0.01				< 0.1	1	-	-	
DOC ^U	12.3				123	500	800	1000	
Leach Test Information									
Sample Mass (kg)			0.12						
Dry Matter (%)			72.5						
Moisture (%)			38						
Stage 1									
Volume Eluate L10 (litres)			0.87						

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion

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APPENDIX F

Ground Gas Monitoring Data

Monitoring Data

GAS MONITORING SHEET

Site: Land West of Bliss Farm, Trowbridge, BA14 6DS

Project: P24-286

Max CH4: 0	Max CO2: 2.7	Min O2: 16.1	Max VOC: 0	Max 0 L/hr
GSV CH4: 0	GSV CO2: 0.0027			

Visit no	Loc.	Date	Op.	Temp °C	Weather	DP	Atmos. Pressure	Water level (mbgl) [Base]		Pipe Proud (m)	CH4			CO2			O2			VOC	H2S	CO	Peak flow (L/hr)
											30	120	St	30	120	St	30	120	St				
1	WS01	12/10/24	BJ	10	Rain	-	999	1.10	5.09	0.05	0.00	0.00	0.00	0.80	0.10	0.10	20.1	20.4	20.4	0.00	0.00	0.00	0.00
1	WS02	12/10/24	BJ	10	Rain	-	999	1.10	4.10	0.15	0.00	0.00	0.00	0.30	0.10	0.10	20.4	20.4	20.4	0.00	0.00	0.00	0.00
1	WS03	12/10/24	BJ	10	Rain	-	999	1.00	5.10	0.10	0.00	0.00	0.00	0.20	0.10	0.10	20.5	20.4	20.4	0.00	0.00	0.00	0.00
1	WS04	12/10/24	BJ	10	Rain	-	999	0.70	4.08	0.05	0.00	0.00	0.00	0.30	0.20	0.10	20.4	20.4	20.4	0.00	0.00	0.00	0.00
1	WS05	12/10/24	BJ	10	Rain	-	999	0.70	5.10	0.10	0.00	0.00	0.00	0.60	0.60	0.40	20.0	19.7	19.9	0.00	0.00	0.00	0.00
1*	WS06	12/10/24	BJ	10	Rain	-	999	0.40	5.12	0.10	0.00	0.00	0.00	1.50	-	-	19.7	-	-	0.00	0.00	0.00	0.00
2	WS01	30/10/24	AA	14	Cloudy	-	1023	1.13	5.09	0.05	0.00	0.00	0.00	0.10	0.10	0.10	20.6	20.5	20.5	0.00	0.00	0.00	0.00
2	WS02	30/10/24	AA	14	Cloudy	-	1023	1.14	4.10	0.15	0.00	0.00	0.00	0.20	0.10	0.10	20.4	20.4	20.4	0.00	0.00	0.00	0.00
2	WS03	30/10/24	AA	14	Cloudy	-	1023	1.30	5.10	0.10	0.00	0.00	0.00	0.50	0.50	0.50	20.0	19.8	19.7	0.00	0.00	0.00	0.00
2	WS04	30/10/24	AA	14	Cloudy	-	1023	0.86	4.08	0.05	0.00	0.00	0.00	0.10	0.10	0.10	20.6	20.5	20.5	0.00	0.00	0.00	0.00
2	WS05	30/10/24	AA	14	Cloudy	-	1023	0.90	5.10	0.10	0.00	0.00	0.00	0.50	0.10	0.40	20.0	20.1	20.1	0.00	0.00	0.00	0.00
2	WS06	30/10/24	AA	14	Cloudy	-	1023	0.50	5.12	0.10	0.00	0.00	0.00	0.30	0.20	0.20	20.2	20.4	20.4	0.00	0.00	0.00	0.00
3	WS01	06/11/24	AA	13	Drizzle	-	1025	1.17	5.09	0.05	0.00	0.00	0.00	0.30	0.10	0.10	20.4	20.4	20.4	0.00	0.00	0.00	0.00
3	WS02	06/11/24	AA	13	Drizzle	-	1025	0.17	4.10	0.15	0.00	0.00	0.00	0.30	0.20	0.20	20.3	20.3	20.3	0.00	0.00	0.00	0.00
3	WS03	06/11/24	AA	13	Drizzle	-	1025	1.37	5.10	0.10	0.00	0.00	0.00	2.50	2.50	2.50	16.4	16.1	16.6	0.00	0.00	0.00	0.00
3	WS04	06/11/24	AA	13	Drizzle	-	1025	1.24	4.08	0.05	0.00	0.00	0.00	2.70	2.70	2.70	16.9	16.9	16.9	0.00	0.00	0.00	0.00
3	WS05	06/11/24	AA	13	Drizzle	-	1025	1.04	5.10	0.10	0.00	0.00	0.00	0.30	0.30	0.30	20.3	20.2	20.2	0.00	0.00	0.00	0.00
3	WS06	06/11/24	AA	13	Drizzle	-	1025	0.60	5.12	0.10	0.00	0.00	0.00	1.60	1.40	1.00	18.6	18.7	19.1	0.00	0.00	0.00	0.00

Comments: * - WS06 - shallow water drawn into monitor

Monitoring undertaken in accordance with BS 8576 : 2013, results provided above are 'raw data'. Flow is taken as the reading after the standpipe is purged, resealed for 10 minutes then re-measured.

Appendix 5

Project: 9740 30yr	Date: 04/02/2026			
Report Details: Type: Inflows Storm Phase: Phase	Designed by: NJ	Checked by: NJ	Approved By: JP	
Company Address:				



Catchment Area

Type : Catchment Area

Area (ha)	0.149
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Roads (2)

Type : Catchment Area

Area (ha)	0.381
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Roof (2)

Type : Catchment Area

Area (ha)	0.233
-----------	-------

Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	10

Project: 9740 30yr	Date: 04/02/2026			
Report Details: Type: Inflows Storm Phase: Phase	Designed by: NJ	Checked by: NJ	Approved By: JP	
Company Address:				



Roof (1)

Type : Catchment Area

Area (ha)	0.067
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	10



Roads (1)

Type : Catchment Area

Area (ha)	0.144
-----------	-------

Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Catchment Area (5)

Type : Catchment Area

Area (ha)	0.032
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

Project: 9740 30yr	Date: 04/02/2026			
Report Details: Type: Stormwater Controls Storm Phase: Phase	Designed by: NJ	Checked by: NJ	Approved By: JP	
	Company Address:			



Pond 2

Type : Pond

Dimensions

Exceedance Level (m)	38.500
Depth (m)	1.000
Base Level (m)	37.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.713
Total Volume (m³)	1166.491

Depth (m)	Area (m²)	Volume (m³)
0.000	1482.00	0.000
1.000	2032.00	1749.782

Outlets

Outlet (1)

Outgoing Connection	Pipe
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	78.433
Friction Scheme	Manning's n
n	0.03

Project: 9740 30yr	Date: 04/02/2026			
Report Details: Type: Stormwater Controls Storm Phase: Phase	Designed by: NJ	Checked by: NJ	Approved By: JP	
	Company Address:			



Pond (1)

Type : Pond

Dimensions

Exceedance Level (m)	38.000
Depth (m)	1.000
Base Level (m)	37.000
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.627
Total Volume (m³)	284.294

Depth (m)	Area (m²)	Volume (m³)
0.000	319.00	0.000
1.000	590.00	447.611

Outlets

Outlet (1)

Outgoing Connection	Pipe (1)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	23.454
Friction Scheme	Manning's n
n	0.03

Project: 9740 30yr		Date: 04/02/2026			
Report Details: Type: Inflow Summary Storm Phase: Phase		Designed by: NJ	Checked by: NJ		Approved By: JP
		Company Address:			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Pond 2		Time of Concentration	0.149	100	0	100	0.149
Catchment Area (5)	Pond (1)		Time of Concentration	0.032	100	0	100	0.032
Roads (1)	Pond (1)		Time of Concentration	0.144	100	0	100	0.144
Roads (2)	Pond 2		Time of Concentration	0.381	100	0	100	0.381
Roof (1)	Pond (1)		Time of Concentration	0.067	100	10	110	0.074
Roof (2)	Pond 2		Time of Concentration	0.233	100	10	110	0.256
TOTAL		0.0		1.006				1.036

Project: 9740 30yr	Date: 04/02/2026			
	Designed by: NJ	Checked by: NJ	Approved By: JP	
Report Details: Type: Outfall Details Storm Phase: Phase	Company Address:			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Simple Junction	Free Discharge			

Project: 9740 30yr	Date: 04/02/2026			
	Designed by: NJ	Checked by: NJ	Approved By: JP	
Report Title: Rainfall Analysis Criteria	Company Address:			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall		
30yr		Type: FEH
Site Location	GB 386650 157350 ST 86650 57350	
Rainfall Version	2022	
Summer	☒	
Winter	☒	

Return Period

Return Period (years)	Increase Rainfall (%)
30.0	0.000

Storm Durations

Duration (mins)	Run Time (mins)
15	20160
30	20160
60	20160
120	20160
180	20160
240	20160
360	20160
480	20160
600	20160
720	20160
960	20160
1440	20160
2160	20160
2880	20160
4320	20160
5760	20160
7200	20160
8640	20160
10080	20160

Project: 9740 30yr	Date: 04/02/2026			
	Designed by: NJ	Checked by: NJ	Approved By: JP	
Report Title: UK and Ireland Rural Runoff Calculator	Company Address:			

FEH

Details

Site Location	GB 447850 164000 SU 47850 64000
Rainfall Version	2022
Data Type	Catchment
Area (ha)	0.87
SAAR (mm)	817.0
SPRHOST (%)	31.84
URBEXT 2000	0.0226
BFIHOST	0.51
FARL	0.963

Results

QMED Rural (L/s)	5.8
QMED Urban (L/s)	6.0

Project: 9740 30yr	Date: 04/02/2026			
	Designed by: NJ	Checked by: NJ	Approved By: JP	
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:			



Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
Manhole	30yr: 30 years: +0 %: 960 mins: Summer	38.250	36.900	37.336	0.436	0.6	0.494	0.000	0.6	147.722	Surcharged
Manhole (1)	30yr: 30 years: +0 %: 10080 mins: Winter	38.500	37.400	37.591	0.191	2.3	0.216	0.000	2.3	786.713	OK
Manhole (2)	30yr: 30 years: +0 %: 8640 mins: Winter	38.000	36.840	36.879	0.039	2.8	0.044	0.000	2.8	986.967	OK
Simple Junction	30yr: 30 years: +0 %: 8640 mins: Winter		36.509	36.547	0.038	2.8			2.8	986.967	OK

Project: 9740 30yr		Date: 04/02/2026			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: NJ	Checked by: NJ		Approved By: JP
		Company Address:			



Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Half Drain Down Time (mins)
Pond 2	30yr: 30 years: +0 %: 1440 mins: Winter	37.751	37.751	0.251	0.251	14.9	387.713	0.000	0.000	2.3	509.871	66.762	
Pond (1)	30yr: 30 years: +0 %: 1440 mins: Winter	37.340	37.340	0.340	0.340	4.7	122.295	0.000	0.000	0.6	161.036	56.983	

Project: 9740 30yr	Date: 04/02/2026			
	Designed by: NJ	Checked by: NJ	Approved By: JP	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			

Status
OK
OK

Project: 9740 30yr	Date: 04/02/2026			
	Designed by: NJ	Checked by: NJ	Approved By: JP	
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:			



Critical Storm Per Item: Rank By: Total Discharge Volume

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe	30yr: 30 years: +0 %: 10080 mins: Winter	Pipe	Pond 2	Manhole (1)	38.500	37.591	0.141	786.714	0.2	0.02	2.3	OK
Pipe (1)	30yr: 30 years: +0 %: 10080 mins: Summer	Pipe	Pond (1)	Manhole	38.000	37.249	0.299	248.497	0.1	0	0.5	OK
Pipe (2)	30yr: 30 years: +0 %: 10080 mins: Winter	Pipe	Manhole (1)	Manhole (2)	38.500	37.591	0.029	786.712	0.7	0.01	2.3	OK
Pipe (3)	30yr: 30 years: +0 %: 10080 mins: Summer	Pipe	Manhole	Manhole (2)	38.250	37.249	0.026	248.495	0.3	0.01	0.5	Surcharged
Pipe (4)	30yr: 30 years: +0 %: 10080 mins: Summer	Pipe	Manhole (2)	Simple Junction	38.000	36.879	0.038	1034.824	0.5	0.04	2.7	OK

Project: 9740 100yr CC Surcharged	Date: 04/02/2026		
	Designed by: NJ	Checked by: NJ	Approved By: JP
Report Details: Type: Inflows Storm Phase: Phase	Company Address:		



Catchment Area

Type : Catchment Area

Area (ha)	0.149
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Roads (2)

Type : Catchment Area

Area (ha)	0.381
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Roof (2)

Type : Catchment Area

Area (ha)	0.233
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	10

Project: 9740 100yr CC Surcharged	Date: 04/02/2026		
	Designed by: NJ	Checked by: NJ	Approved By: JP
Report Details: Type: Inflows Storm Phase: Phase	Company Address:		



Roof (1)

Type : Catchment Area

Area (ha)	0.067
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	10



Roads (1)

Type : Catchment Area

Area (ha)	0.144
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Catchment Area (5)

Type : Catchment Area

Area (ha)	0.032
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

Project: 9740 100yr CC Surcharged	Date: 04/02/2026			
Report Details: Type: Stormwater Controls Storm Phase: Phase	Designed by: NJ	Checked by: NJ	Approved By: JP	
	Company Address:			



Pond 2

Type : Pond

Dimensions

Exceedance Level (m)	38.500
Depth (m)	1.000
Base Level (m)	37.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.713
Total Volume (m³)	1166.491

Depth (m)	Area (m²)	Volume (m³)
0.000	1482.00	0.000
1.000	2032.00	1749.782

Outlets

Outlet (1)

Outgoing Connection	Pipe
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	78.433
Friction Scheme	Manning's n
n	0.03

Project: 9740 100yr CC Surcharged	Date: 04/02/2026			
Report Details: Type: Stormwater Controls Storm Phase: Phase	Designed by: NJ	Checked by: NJ	Approved By: JP	
	Company Address:			



Pond (1)

Type : Pond

Dimensions

Exceedance Level (m)	38.000
Depth (m)	1.000
Base Level (m)	37.000
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.627
Total Volume (m³)	284.294

Depth (m)	Area (m²)	Volume (m³)
0.000	319.00	0.000
1.000	590.00	447.611

Outlets

Outlet (1)

Outgoing Connection	Pipe (1)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	23.454
Friction Scheme	Manning's n
n	0.03

Project: 9740 100yr CC Surcharged		Date: 04/02/2026			
		Designed by: NJ	Checked by: NJ		Approved By: JP
Report Details: Type: Inflow Summary Storm Phase: Phase		Company Address:			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Pond 2		Time of Concentration	0.149	100	0	100	0.149
Catchment Area (5)	Pond (1)		Time of Concentration	0.032	100	0	100	0.032
Roads (1)	Pond (1)		Time of Concentration	0.144	100	0	100	0.144
Roads (2)	Pond 2		Time of Concentration	0.381	100	0	100	0.381
Roof (1)	Pond (1)		Time of Concentration	0.067	100	10	110	0.074
Roof (2)	Pond 2		Time of Concentration	0.233	100	10	110	0.256
TOTAL		0.0		1.006				1.036

Project: 9740 100yr CC Surcharged	Date: 04/02/2026		
	Designed by: NJ	Checked by: NJ	Approved By: JP
Report Details: Type: Outfall Details Storm Phase: Phase	Company Address:		



Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Simple Junction	Fixed Surcharged Level	☐	37.925	
FEH : 100 years: +45 %: 15 mins: Summer			37.925	
FEH : 100 years: +45 %: 15 mins: Winter			37.925	
FEH : 100 years: +45 %: 30 mins: Summer			37.925	
FEH : 100 years: +45 %: 30 mins: Winter			37.925	
FEH : 100 years: +45 %: 60 mins: Summer			37.925	
FEH : 100 years: +45 %: 60 mins: Winter			37.925	
FEH : 100 years: +45 %: 120 mins: Summer			37.925	
FEH : 100 years: +45 %: 120 mins: Winter			37.925	
FEH : 100 years: +45 %: 180 mins: Summer			37.925	
FEH : 100 years: +45 %: 180 mins: Winter			37.925	
FEH : 100 years: +45 %: 240 mins: Summer			37.925	
FEH : 100 years: +45 %: 240 mins: Winter			37.925	
FEH : 100 years: +45 %: 360 mins: Summer			37.925	
FEH : 100 years: +45 %: 360 mins: Winter			37.925	
FEH : 100 years: +45 %: 480 mins: Summer			37.925	
FEH : 100 years: +45 %: 480 mins: Winter			37.925	
FEH : 100 years: +45 %: 600 mins: Summer			37.925	
FEH : 100 years: +45 %: 600 mins: Winter			37.925	
FEH : 100 years: +45 %: 720 mins: Summer			37.925	
FEH : 100 years: +45 %: 720 mins: Winter			37.925	
FEH : 100 years: +45 %: 960 mins: Summer			37.925	
FEH : 100 years: +45 %: 960 mins: Winter			37.925	
FEH : 100 years: +45 %: 1440 mins: Summer			37.925	
FEH : 100 years: +45 %: 1440 mins: Winter			37.925	
FEH : 100 years: +45 %: 2160 mins: Summer			37.925	
FEH : 100 years: +45 %: 2160 mins: Winter			37.925	
FEH : 100 years: +45 %: 2880 mins: Summer			37.925	
FEH : 100 years: +45 %: 2880 mins: Winter			37.925	
FEH : 100 years: +45 %: 4320 mins: Summer			37.925	
FEH : 100 years: +45 %: 4320 mins: Winter			37.925	
FEH : 100 years: +45 %: 5760 mins: Summer			37.925	

Project: 9740 100yr CC Surcharged	Date: 04/02/2026			
	Designed by: NJ	Checked by: NJ	Approved By: JP	
Report Details: Type: Outfall Details Storm Phase: Phase	Company Address:			

FEH : 100 years: +45 %: 5760 mins: Winter			37.925	
FEH : 100 years: +45 %: 7200 mins: Summer			37.925	
FEH : 100 years: +45 %: 7200 mins: Winter			37.925	
FEH : 100 years: +45 %: 8640 mins: Summer			37.925	
FEH : 100 years: +45 %: 8640 mins: Winter			37.925	
FEH : 100 years: +45 %: 10080 mins: Summer			37.925	
FEH : 100 years: +45 %: 10080 mins: Winter			37.925	

Project: 9740 100yr CC Surcharged	Date: 04/02/2026			
	Designed by: NJ	Checked by: NJ	Approved By: JP	
Report Title: Rainfall Analysis Criteria	Company Address:			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FEH	Type: FEH
Site Location	GB 386650 157350 ST 86650 57350
Rainfall Version	2022
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Project: 9740 100yr CC Surcharged	Date: 04/02/2026			
	Designed by: NJ	Checked by: NJ	Approved By: JP	
Report Title: UK and Ireland Rural Runoff Calculator	Company Address:			

FEH

Details

Site Location	GB 447850 164000 SU 47850 64000
Rainfall Version	2022
Data Type	Catchment
Area (ha)	0.87
SAAR (mm)	817.0
SPRHOST (%)	31.84
URBEXT 2000	0.0226
BFIHOST	0.51
FARL	0.963

Results

QMED Rural (L/s)	5.8
QMED Urban (L/s)	6.0

Project: 9740 100yr CC Surcharged		Date: 04/02/2026			
		Designed by: NJ	Checked by: NJ		Approved By: JP
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:			



Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
Manhole	FEH: 100 years: +45 %: 7200 mins: Summer	38.25 0	36.90 0	38.018	1.118	0.8	1.264	0.000	0.5	270.381	Flood Risk
Manhole (1)	FEH: 100 years: +45 %: 10080 mins: Winter	38.50 0	37.40 0	38.229	0.829	2.4	0.938	0.000	2.3	1341.582	Flood Risk
Manhole (2)	FEH: 100 years: +45 %: 960 mins: Winter	38.00 0	36.84 0	37.957	1.117	5.5	1.264	0.000	9.4	218.040	Flood Risk
Simple Junction	FEH: 100 years: +45 %: 960 mins: Winter		36.50 9	37.925	1.416	9.4			9.0	192.551	OK

Project: 9740 100yr CC Surcharged		Date: 04/02/2026			
		Designed by: NJ	Checked by: NJ		Approved By: JP
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Half Drain Down Time (mins)
Pond 2	FEH: 100 years: +45 %: 10080 mins: Summer	38.255	38.255	0.755	0.755	8.7	1268.850	0.000	0.000	2.3	1008.674	-8.775	
Pond (1)	FEH: 100 years: +45 %: 10080 mins: Summer	38.099	38.099	1.099	1.099	3.1	505.818	58.207	0.000	0.6	194.087	-77.921	

Project: 9740 100yr CC Surcharged	Date: 04/02/2026		
	Designed by: NJ	Checked by: NJ	Approved By: JP
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:		



Status
Flood Risk
Flood

Project: 9740 100yr CC Surcharged	Date: 04/02/2026		
	Designed by: NJ	Checked by: NJ	Approved By: JP
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:		



Critical Storm Per Item: Rank By: Total Discharge Volume

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe	FEH: 100 years: +45 %: 10080 mins: Winter	Pipe	Pond 2	Manhole (1)	38.500	38.229	0.300	645.904	0.0	0.02	2.4	Flood Risk
Pipe (1)	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Pond (1)	Manhole	38.000	38.099	0.300	15.404	0.0	0	0.6	Flood
Pipe (2)	FEH: 100 years: +45 %: 10080 mins: Winter	Pipe	Manhole (1)	Manhole (2)	38.500	38.229	0.300	643.946	0.1	0.01	3.7	Flood Risk
Pipe (3)	FEH: 100 years: +45 %: 10080 mins: Winter	Pipe	Manhole	Manhole (2)	38.250	38.098	0.300	13.381	0.0	0.03	3.1	Flood Risk
Pipe (4)	FEH: 100 years: +45 %: 10080 mins: Winter	Pipe	Manhole (2)	Simple Junction	38.000	37.953	0.300	652.993	0.1	0.11	8.8	Flood Risk

Project: 9740 100CC	Date: 04/02/2026			
Report Details: Type: Inflows Storm Phase: Phase	Designed by: NJ	Checked by: JP	Approved By: DF	
Company Address:				



Catchment Area

Type : Catchment Area

Area (ha)	0.149
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Roads (2)

Type : Catchment Area

Area (ha)	0.381
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Roof (2)

Type : Catchment Area

Area (ha)	0.233
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	10

Project: 9740 100CC	Date: 04/02/2026			
Report Details: Type: Inflows Storm Phase: Phase	Designed by: NJ	Checked by: JP	Approved By: DF	
Company Address:				



Roof (1)

Type : Catchment Area

Area (ha)	0.067
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	10



Roads (1)

Type : Catchment Area

Area (ha)	0.144
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Catchment Area (5)

Type : Catchment Area

Area (ha)	0.032
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

Project: 9740 100CC	Date: 04/02/2026		
	Designed by: NJ	Checked by: JP	Approved By: DF
Report Details: Type: Stormwater Controls Storm Phase: Phase		Company Address:	



Pond 2

Type : Pond

Dimensions

Exceedance Level (m)	38.500
Depth (m)	1.000
Base Level (m)	37.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.713
Total Volume (m³)	1166.491

Depth (m)	Area (m²)	Volume (m³)
0.000	1482.00	0.000
1.000	2032.00	1749.782

Outlets

Outlet (1)

Outgoing Connection	Pipe
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	78.433
Friction Scheme	Manning's n
n	0.03

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



Pond (1)

Type : Pond

Dimensions

Exceedance Level (m)	38.000
Depth (m)	1.000
Base Level (m)	37.000
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.627
Total Volume (m³)	284.294

Depth (m)	Area (m²)	Volume (m³)
0.000	319.00	0.000
1.000	590.00	447.611

Outlets

Outlet (1)

Outgoing Connection	Pipe (1)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	23.454
Friction Scheme	Manning's n
n	0.03

Project: 9740 100CC		Date: 04/02/2026			
		Designed by: NJ	Checked by: JP		Approved By: DF
Report Details: Type: Inflow Summary Storm Phase: Phase		Company Address:			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Pond 2		Time of Concentration	0.149	100	0	100	0.149
Catchment Area (5)	Pond (1)		Time of Concentration	0.032	100	0	100	0.032
Roads (1)	Pond (1)		Time of Concentration	0.144	100	0	100	0.144
Roads (2)	Pond 2		Time of Concentration	0.381	100	0	100	0.381
Roof (1)	Pond (1)		Time of Concentration	0.067	100	10	110	0.074
Roof (2)	Pond 2		Time of Concentration	0.233	100	10	110	0.256
TOTAL		0.0		1.006				1.036

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Details: Type: Outfall Details Storm Phase: Phase	Company Address:			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Simple Junction	Free Discharge			

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Title: Rainfall Analysis Criteria	Company Address:			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FEH	Type: FEH
Site Location	GB 386650 157350 ST 86650 57350
Rainfall Version	2022
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Title: UK and Ireland Rural Runoff Calculator	Company Address:			

FEH

Details

Site Location	GB 447850 164000 SU 47850 64000
Rainfall Version	2022
Data Type	Catchment
Area (ha)	0.87
SAAR (mm)	817.0
SPRHOST (%)	31.84
URBEXT 2000	0.0226
BFIHOST	0.51
FARL	0.963

Results

QMED Rural (L/s)	5.8
QMED Urban (L/s)	6.0

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:			



Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
Manhole	FEH: 100 years: +45 %: 1440 mins: Summer	38.250	36.900	37.651	0.751	0.7	0.849	0.000	0.7	106.231	Surcharged
Manhole (1)	FEH: 100 years: +45 %: 7200 mins: Winter	38.500	37.400	37.902	0.502	2.3	0.568	0.000	2.3	1246.661	Surcharged
Manhole (2)	FEH: 100 years: +45 %: 2160 mins: Winter	38.000	36.840	36.880	0.040	2.8	0.045	0.000	2.8	640.696	OK
Simple Junction	FEH: 100 years: +45 %: 2160 mins: Winter		36.400	36.439	0.039	2.8			2.8	640.696	OK

Project: 9740 100CC		Date: 04/02/2026			
		Designed by: NJ	Checked by: JP		Approved By: DF
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Half Drain Down Time (mins)
Pond 2	FEH: 100 years: +45 %: 2160 mins: Winter	38.013	38.013	0.513	0.513	20.5	828.488	0.000	0.000	2.3	484.604	28.976	2090
Pond (1)	FEH: 100 years: +45 %: 2160 mins: Winter	37.656	37.656	0.656	0.656	6.5	262.559	0.000	0.000	0.7	157.844	7.645	

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			

Status
OK
OK

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:			



Critical Storm Per Item: Rank By: Total Discharge Volume

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Pond 2	Manhole (1)	38.500	37.877	0.225	1336.597	0.2	0.04	2.3	Surcharged
Pipe (1)	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Pond (1)	Manhole	38.000	37.500	0.225	422.012	0.1	0.01	0.6	Surcharged
Pipe (2)	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Manhole (1)	Manhole (2)	38.500	37.877	0.030	1336.593	0.7	0.02	2.3	Surcharged
Pipe (3)	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Manhole	Manhole (2)	38.250	37.500	0.028	421.909	0.3	0.01	0.6	Surcharged
Pipe (4)	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Manhole (2)	Simple Junction	38.000	36.879	0.039	1758.498	0.6	0.06	2.7	OK

Project: 9740 100CC	Date: 04/02/2026			
Report Details: Type: Inflows Storm Phase: Phase	Designed by: NJ	Checked by: JP	Approved By: DF	
Company Address:				



Catchment Area

Type : Catchment Area

Area (ha)	0.149
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Roads (2)

Type : Catchment Area

Area (ha)	0.381
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Roof (2)

Type : Catchment Area

Area (ha)	0.233
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	10

Project: 9740 100CC	Date: 04/02/2026			
Report Details: Type: Inflows Storm Phase: Phase	Designed by: NJ	Checked by: JP	Approved By: DF	
Company Address:				



Roof (1)

Type : Catchment Area

Area (ha)	0.067
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	10



Roads (1)

Type : Catchment Area

Area (ha)	0.144
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Catchment Area (5)

Type : Catchment Area

Area (ha)	0.032
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

Project: 9740 100CC	Date: 04/02/2026			
Report Details: Type: Stormwater Controls Storm Phase: Phase	Designed by: NJ	Checked by: JP	Approved By: DF	
Company Address:				



Pond 2

Type : Pond

Dimensions

Exceedance Level (m)	38.500
Depth (m)	1.000
Base Level (m)	37.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.713
Total Volume (m³)	1166.491

Depth (m)	Area (m²)	Volume (m³)
0.000	1482.00	0.000
1.000	2032.00	1749.782

Outlets

Outlet (1)

Outgoing Connection	Pipe
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	78.433
Friction Scheme	Manning's n
n	0.03

Project: 9740 100CC	Date: 04/02/2026		
	Designed by: NJ	Checked by: JP	Approved By: DF
Report Details: Type: Stormwater Controls Storm Phase: Phase		Company Address:	





Pond (1)

Type : Pond

Dimensions

Exceedance Level (m)	38.000
Depth (m)	1.000
Base Level (m)	37.000
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.627
Total Volume (m³)	284.294

Depth (m)	Area (m²)	Volume (m³)
0.000	319.00	0.000
1.000	590.00	447.611

Outlets

Outlet (1)

Outgoing Connection	Pipe (1)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	23.454
Friction Scheme	Manning's n
n	0.03

Project: 9740 100CC		Date: 04/02/2026			
		Designed by: NJ	Checked by: JP		Approved By: DF
Report Details: Type: Inflow Summary Storm Phase: Phase		Company Address:			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Pond 2		Time of Concentration	0.149	100	0	100	0.149
Catchment Area (5)	Pond (1)		Time of Concentration	0.032	100	0	100	0.032
Roads (1)	Pond (1)		Time of Concentration	0.144	100	0	100	0.144
Roads (2)	Pond 2		Time of Concentration	0.381	100	0	100	0.381
Roof (1)	Pond (1)		Time of Concentration	0.067	100	10	110	0.074
Roof (2)	Pond 2		Time of Concentration	0.233	100	10	110	0.256
TOTAL		0.0		1.006				1.036

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Details: Type: Outfall Details Storm Phase: Phase	Company Address:			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Simple Junction	Free Discharge			

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Title: Rainfall Analysis Criteria	Company Address:			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FEH	Type: FEH
Site Location	GB 386650 157350 ST 86650 57350
Rainfall Version	2022
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Title: UK and Ireland Rural Runoff Calculator	Company Address:			

FEH

Details

Site Location	GB 447850 164000 SU 47850 64000
Rainfall Version	2022
Data Type	Catchment
Area (ha)	0.87
SAAR (mm)	817.0
SPRHOST (%)	31.84
URBEXT 2000	0.0226
BFIHOST	0.51
FARL	0.963

Results

QMED Rural (L/s)	5.8
QMED Urban (L/s)	6.0

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:			



Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
Manhole	FEH: 100 years: +45 %: 1440 mins: Summer	38.250	36.900	37.651	0.751	0.7	0.849	0.000	0.7	106.231	Surcharged
Manhole (1)	FEH: 100 years: +45 %: 7200 mins: Winter	38.500	37.400	37.902	0.502	2.3	0.568	0.000	2.3	1246.661	Surcharged
Manhole (2)	FEH: 100 years: +45 %: 2160 mins: Winter	38.000	36.840	36.880	0.040	2.8	0.045	0.000	2.8	640.696	OK
Simple Junction	FEH: 100 years: +45 %: 2160 mins: Winter		36.400	36.439	0.039	2.8			2.8	640.696	OK

Project: 9740 100CC		Date: 04/02/2026			
		Designed by: NJ	Checked by: JP		Approved By: DF
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Half Drain Down Time (mins)
Pond 2	FEH: 100 years: +45 %: 2160 mins: Winter	38.013	38.013	0.513	0.513	20.5	828.488	0.000	0.000	2.3	484.604	28.976	2090
Pond (1)	FEH: 100 years: +45 %: 2160 mins: Winter	37.656	37.656	0.656	0.656	6.5	262.559	0.000	0.000	0.7	157.844	7.645	

Project: 9740 100CC	Date: 04/02/2026			
	Designed by: NJ	Checked by: JP	Approved By: DF	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			

Status
OK
OK

Project: 9740 100CC		Date: 04/02/2026			
Report Details: Type: Connections Summary Storm Phase: Phase		Designed by: NJ	Checked by: JP		Approved By: DF
		Company Address:			



Critical Storm Per Item: Rank By: Total Discharge Volume

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Pond 2	Manhole (1)	38.500	37.877	0.225	1336.597	0.2	0.04	2.3	Surcharged
Pipe (1)	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Pond (1)	Manhole	38.000	37.500	0.225	422.012	0.1	0.01	0.6	Surcharged
Pipe (2)	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Manhole (1)	Manhole (2)	38.500	37.877	0.030	1336.593	0.7	0.02	2.3	Surcharged
Pipe (3)	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Manhole	Manhole (2)	38.250	37.500	0.028	421.909	0.3	0.01	0.6	Surcharged
Pipe (4)	FEH: 100 years: +45 %: 10080 mins: Summer	Pipe	Manhole (2)	Simple Junction	38.000	36.879	0.039	1758.498	0.6	0.06	2.7	OK



Greenfield runoff rate estimation tool

www.uksuds.com | Greenfield runoff rate estimation tool (<https://www.uksuds.com/>)

hrwallingford

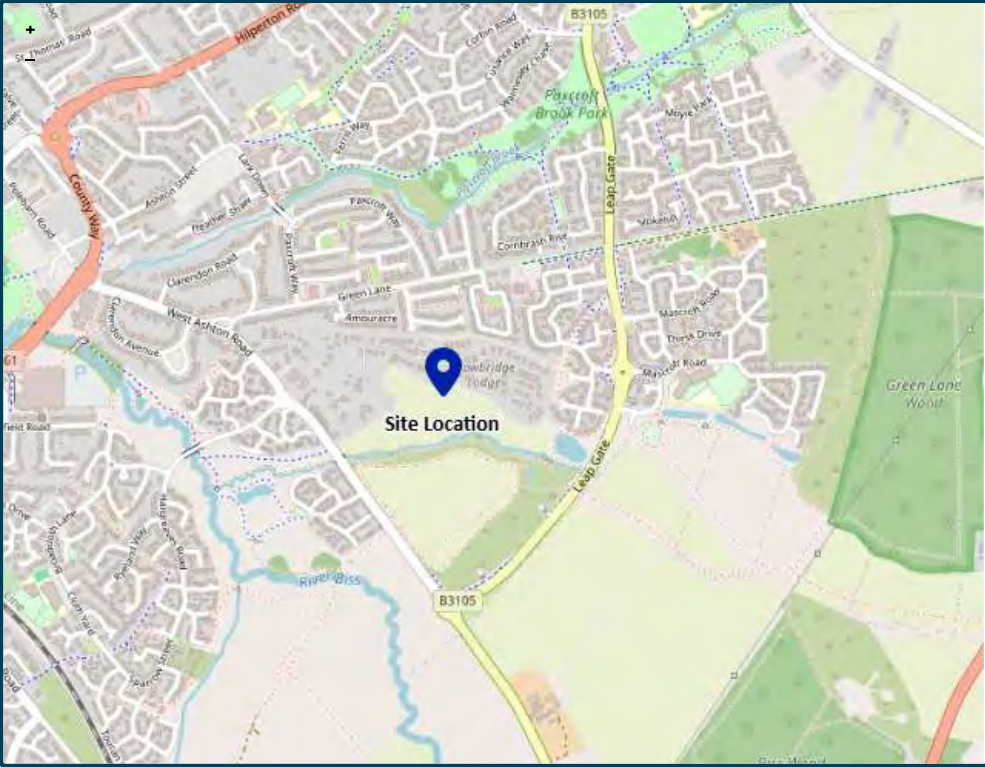
This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013), the SuDS Manual C753 (CIRIA, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Project details

Date	22/04/2026
Calculated by	
Reference	
Model version	2.2.3

Location

Site name	9740
Site location	Trowbridge - Catchment 1



© OpenStreetMap (<https://www.openstreetmap.org/copyright>) contributors.

Site easting (British National Grid)	386926
Site northing (British National Grid)	157449

Site details

Total site area (ha)	0.243	ha
----------------------	------------------------------------	----

Greenfield runoff

Method

Method

FEH statistical (2025)

My value

Map value

SAAR9120 (mm)

752

mm

BFIHOST19scaled

0.568

QMed-QBar conversion

1.075

1.075

QMed (l/s)

0.6

l/s

QBar (FEH statistical 2025) (l/s)

0.7

l/s

Growth curve factors

Hydrological region

8

8

1 year growth factor

0.78

2 year growth factor

0.93

10 year growth factor

1.49

30 year growth factor

1.95

100 year growth factor

2.43

200 year growth factor

2.78

Results

Method

FEH statistical (2025)

Flow rate 1 year (l/s)

0.5

l/s

Flow rate 2 year (l/s)

0.6

l/s

Flow rate 10 years (l/s)

1.0

l/s

Flow rate 30 years (l/s)

1.3

l/s

Flow rate 100 years (l/s)

1.6

l/s

Flow rate 200 years (l/s)

1.8

l/s

Please note runoff estimation is subject to significant uncertainty. Results are therefore normally reported to only 1 decimal place. Where 2 decimal places are provided, this does not indicate accuracy to this level, it has been adopted to prevent 'zero' figures from being reported. Outputs less than 0.01 l/s are reported as 0.01 l/s.

Disclaimer

This report was produced using the Greenfield runoff rate estimation tool (2.2.3) developed by HR Wallingford and available at uksuds.com (<https://www.uksuds.com/>). The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at [uksuds.com/terms-conditions](https://www.uksuds.com/terms-conditions) (<https://www.uksuds.com/terms-conditions>). The outputs from this tool have been used to estimate Greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, Centre for Ecology and Hydrology, Wallingford Hydrosolutions or any other organisation for the use of these data in the design or operational characteristics of any drainage scheme.



Greenfield runoff rate estimation tool

www.uksuds.com | Greenfield runoff rate estimation tool (<https://www.uksuds.com/>)

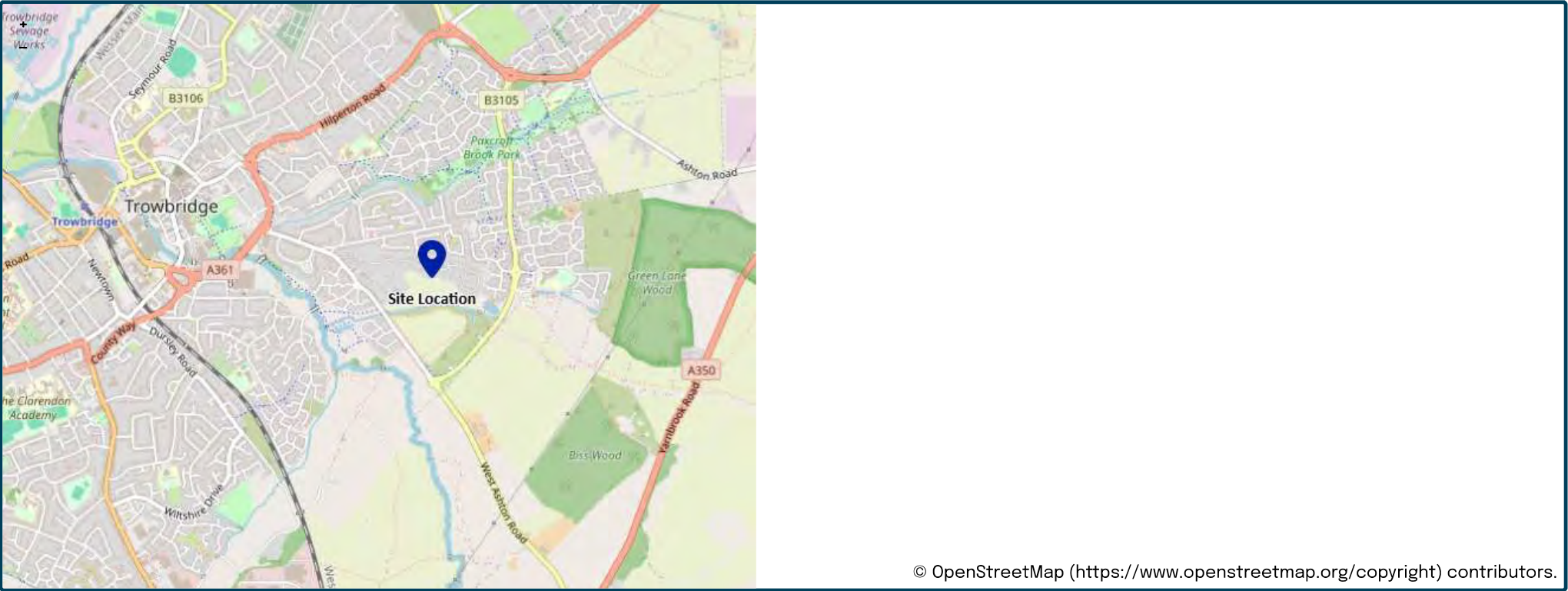
This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013), the SuDS Manual C753 (CIRIA, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Project details

Date	22/04/2026
Calculated by	
Reference	
Model version	2.2.3

Location

Site name	9740
Site location	Trowbridge - Catchment 2



Site easting (British National Grid)	386926
Site northing (British National Grid)	157449

Site details

Total site area (ha)	0.762	ha
----------------------	------------------------------------	----

Greenfield runoff

Method

Method

FEH statistical (2025)

My value

Map value

SAAR9120 (mm)

752

mm

BFIHOST19scaled

0.568

QMed-QBar conversion

1.075

1.075

QMed (l/s)

1.9

l/s

QBar (FEH statistical 2025) (l/s)

2.1

l/s

Growth curve factors

Hydrological region

8

Map value

8

1 year growth factor

0.78

2 year growth factor

0.93

10 year growth factor

1.49

30 year growth factor

1.95

100 year growth factor

2.43

200 year growth factor

2.78

Results

Method

FEH statistical (2025)

Flow rate 1 year (l/s)

1.6

l/s

Flow rate 2 year (l/s)

1.9

l/s

Flow rate 10 years (l/s)

3.1

l/s

Flow rate 30 years (l/s)

4.0

l/s

Flow rate 100 years (l/s)

5.0

l/s

Flow rate 200 years (l/s)

5.7

l/s

Please note runoff estimation is subject to significant uncertainty. Results are therefore normally reported to only 1 decimal place. Where 2 decimal places are provided, this does not indicate accuracy to this level, it has been adopted to prevent 'zero' figures from being reported. Outputs less than 0.01 l/s are reported as 0.01 l/s.

Disclaimer

This report was produced using the Greenfield runoff rate estimation tool (2.2.3) developed by HR Wallingford and available at uksuds.com (https://www.uksuds.com/). The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at uksuds.com/terms-conditions (https://www.uksuds.com/terms-conditions). The outputs from this tool have been used to estimate Greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, Centre for Ecology and Hydrology, Wallingford Hydrosolutions or any other organisation for the use of these data in the design or operational characteristics of any drainage scheme.

Appendix 6

Jess Pockett
Cole Easdon
JPockett@ColeEasdon.com

Our ref: 372705-WX
Date: 6th September 2024

Dear Jess Pockett

Thank you for your enquiry which was received on 15th August 2024. We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

Abstract

Name	Product 4
Description	Flood Risk Information for land at Uplands, Trowbridge NGR: ST8692857464
Licence	Open Government Licence
Information Warnings	<i>The mapping of features provided as a background in this product is © Ordnance Survey. It is provided to give context to this product. The Open Government Licence does not apply.</i>
Attribution	Contains Environment Agency information © Environment Agency and/or database rights. Contains Ordnance Survey data © Crown copyright 2020 Ordnance Survey 100024198.

Open Data

The following Environment Agency published datasets are now available on the weblink below as part of the Government's 'Open Data' project and are available for you to download free of charge.

Environment Agency published datasets: <https://data.gov.uk/data/search?publisher=environment-agency&unpublished=false>

You will need to search and select the name of the following datasets to take you directly to the weblink to enable you to download the data:

- Flood Map for Planning (Rivers and the Sea) – Flood Zones 2 and 3
- Flood Map for Planning (Rivers and Sea) – Areas Benefiting from Defences
- Flood Map for Planning (Rivers and Sea) Spatial Flood Defences
- Flood Map for Planning (Rivers and Sea) Flood Storage Areas
- Recorded Flood Outlines
- Historic Flood Map
- Risk of Flooding from Surface Water Extent for:
 - 3 percent annual chance
 - 1 percent annual chance
 - 0.5 percent annual chance

You can also access the Flood Map for Planning here: <https://flood-map-for-planning.service.gov.uk/>



Scale: 1:7,500

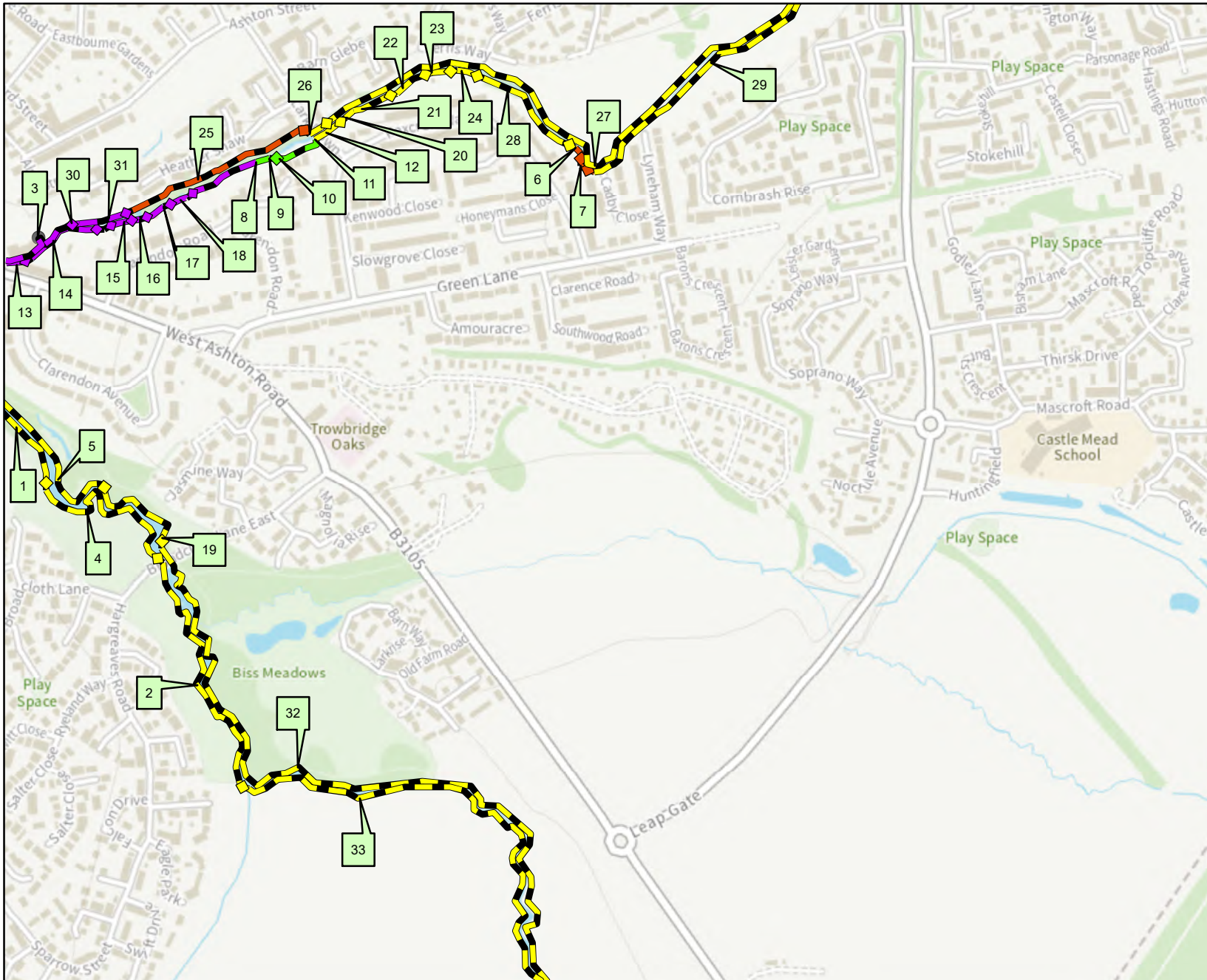


Legend

Defences

- Barrier Beach
- Beach
- Bridge Abutment
- Cliff
- Demountable Defence
- Dunes
- Embankment
- Engineered High Ground
- Flood Gate
- Natural High Ground
- Promenade
- Quay
- Spillway
- Wall

This data has been extracted from the Asset Information Management System (AIMS OM) which was created to draw various data sources into one database and has been populated with information of varying quality.



Product 4 - AIMS Information

372705-WX

Date: 28/08/2024

Map Ref	Asset ID	Asset Type	Right or left bank	Asset Description	Approx length (m)	Actual fluvial downstream crest level (mAOD)	Actual fluvial downstream crest level accuracy	Actual fluvial upstream crest level (mAOD)	Actual fluvial upstream crest level accuracy	Actual fluvial coastal crest level (mAOD)	Actual fluvial coastal crest level accuracy	NGR	Most recent inspection	Overall condition
1	1794	Natural High Ground	Left	Natural Bank	314.04	DNR	DNR	DNR	DNR	DNR	DNR	ST8607557599	01/12/2022	3 - Fair
2	1795	Natural High Ground	Left	Regraded Bank and meadow	376.85	DNR	DNR	DNR	DNR	DNR	DNR	ST86375721	01/12/2022	3 - Fair
3	332279	Demountable Defence	DNR	Stop log floodgate and access ramp	3.58	DNR	DNR	DNR	DNR	DNR	DNR	ST86155780	25/01/2024	2 - Good
4	40236	Natural High Ground	Left	Regraded Bank	273.80	DNR	DNR	DNR	DNR	DNR	DNR	ST8624857436	01/12/2022	2 - Good
5	40775	Natural High Ground	Right	Regraded Bank	244.87	DNR	DNR	DNR	DNR	DNR	DNR	ST86195746	01/12/2022	3 - Fair
6	497368	Engineered High Ground	DNR	Walled channel	26.96	DNR	DNR	DNR	DNR	DNR	DNR	ST8688657915	25/01/2024	3 - Fair
7	497369	Engineered High Ground	DNR	Gabion lined channel	20.13	DNR	DNR	DNR	DNR	DNR	DNR	ST8689257899	25/01/2024	2 - Good
8	53174	Wall	Left	Walled channel	106.38	37.18	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	37.18	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST8639857883	25/01/2024	3 - Fair
9	53212	Embankment	Left	Earth embankment	18.27	37.18	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	37.18	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST86455791	25/01/2024	3 - Fair
10	53213	Embankment	Left	Earth embankment	75.12	37.92	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	38.79	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST8650257920	25/01/2024	3 - Fair
11	53214	Natural High Ground	Left	Bridge abutment	17.81	DNR	DNR	DNR	DNR	DNR	DNR	ST86535794	25/01/2024	3 - Fair
12	53215	Natural High Ground	Left	Earth bank	32.98	DNR	DNR	DNR	DNR	DNR	DNR	ST86555795	25/01/2024	3 - Fair
13	53216	Wall	Left	Walled channel	35.57	37.12	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	37.12	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST86135777	25/01/2024	2 - Good
14	53568	Wall	Left	walled channel	113.63	37.12	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	37.12	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST8619157818	25/01/2024	5 - Very Poor
15	53572	Wall	Left	Walled channel	28.63	37.12	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	37.12	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST8626357826	25/01/2024	4 - Poor
16	53573	Wall	Left	Walled channel	20.99	37.12	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	37.12	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST86285783	25/01/2024	2 - Good
17	53574	Wall	Left	Walled channel	36.79	37.12	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	37.12	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST8631757843	25/01/2024	3 - Fair
18	53575	Wall	Left	Walled channel	33.94	37.18	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	37.18	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST8634357856	25/01/2024	3 - Fair
19	5384	Natural High Ground	Right	Natural Bank	145.33	DNR	DNR	DNR	DNR	DNR	DNR	ST86275745	01/12/2022	3 - Fair
20	55115	Natural High Ground	Left	Earth bank	14.19	DNR	DNR	DNR	DNR	DNR	DNR	ST86575797	25/01/2024	3 - Fair
21	55116	Natural High Ground	Left	Earth Bank	63.11	DNR	DNR	DNR	DNR	DNR	DNR	ST8661557991	25/01/2024	3 - Fair
22	55117	Natural High Ground	Left	Walled channel	55.32	DNR	DNR	DNR	DNR	DNR	DNR	ST8664958011	25/01/2024	3 - Fair
23	55118	Natural High Ground	Left	Earth Bank	34.79	DNR	DNR	DNR	DNR	DNR	DNR	ST86705803	25/01/2024	3 - Fair

Map Ref	Asset ID	Asset Type	Right or left bank	Asset Description	Approx length (m)	Actual fluvial downstream crest level (mAOD)	Actual fluvial downstream crest level accuracy	Actual fluvial upstream crest level (mAOD)	Actual fluvial upstream crest level accuracy	Actual fluvial coastal crest level (mAOD)	Actual fluvial coastal crest level accuracy	NGR	Most recent inspection	Overall condition
24	55119	Natural High Ground	Left	Walled channel	37.03	DNR	DNR	DNR	DNR	DNR	DNR	ST8674458025	25/01/2024	3 - Fair
25	55391	Engineered High Ground	Right	Earth embankment	267.82	37.20	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	39.07	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST8639757897	25/01/2024	3 - Fair
26	55393	Natural High Ground	Right	Bridge abutment	18.10	DNR	DNR	DNR	DNR	DNR	DNR	ST86525795	25/01/2024	3 - Fair
27	55394	Natural High Ground	Right	Earth embankment	976.14	DNR	DNR	DNR	DNR	DNR	DNR	ST8695657957	25/01/2024	3 - Fair
28	55396	Natural High Ground	Left	Bank	161.57	DNR	DNR	DNR	DNR	DNR	DNR	ST86825796	25/01/2024	3 - Fair
29	55733	Natural High Ground	Left	Natural bank	516.87	DNR	DNR	DNR	DNR	DNR	DNR	ST8708858057	25/01/2024	4 - Poor
30	55757	Wall	Right	Walled channel	135.75	37.31	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	37.31	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST86165780	25/01/2024	2 - Good
31	55758	Wall	Right	Walled channel	74.26	37.21	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	37.21	1 - +/- 0.01m to 0.05m vertical accuracy (Typically on site survey)	DNR	DNR	ST8625657834	25/01/2024	3 - Fair
32	97032	Natural High Ground	Right	Natural Bank	3381.63	DNR	DNR	DNR	DNR	DNR	DNR	ST8701356252	01/12/2022	3 - Fair
33	98383	Natural High Ground	Left	Natural Bank	3692.96	DNR	DNR	DNR	DNR	DNR	DNR	ST8691755704	01/12/2022	3 - Fair

Notes

* Overall Condition has been taken from the most recent inspection

* Inspections are of a purely visual nature and do not necessarily reflect the true condition of the asset

* Condition: 1 = very good, Condtion 2 = good, Condition 3 = fair, Condition 4 = poor, Condition 5 = very poor

* Crest level accuracy: 1 = ± 0.01 to 0.05m, 2 = ± 0.05 to 0.15m, 3 = ± 0.15 to 0.75m, 4 = ± 0.75 or greater

* DNR = data not recorded

You can also access the Risk of Flooding from Surface Water maps and Risk of Flooding from Reservoirs information here: <https://flood-warning-information.service.gov.uk/long-term-flood-risk/map>

Recorded Historic Flood Events

We no longer produce pdf copies of the Historic Flood Map. This information is available to search, select, and download free of charge as part of the Government's 'open data' as

- Recorded Flood Outlines
- the Historic Flood Map

Our historic records indicate that there was fluvial (main river) flooding in the area in **1925, 1932 and 1960**.

Additionally, our historic records show a record of possible flooding pre 2012 for the area, however we are currently unable to confirm the date and source of this.

Please note - we cannot guarantee that this is an exhaustive list of all past flood events in this location. All reasonable care has been taken to ensure that the historical flood event data is as accurate as possible. The Environment Agency will update its records if new evidence emerges.

Modelled Fluvial Water Levels

(As requested) Please see the separate Product 5 and Product 6 letter which includes a Sharefile link to download the Trowbridge SoP Study 2013 Model Output Data and the Model Reporting for the area near your site. This data can be used to extract the modelled depths and levels for your site boundary using any GIS application (Product 4).

Flood Levels

We have not carried out any detailed fluvial flood risk modelling in this location.

The fluvial Flood Map in this area has been produced using our National Generalised Model (JFLOW). This modelling is fit for the purpose of the Flood Zones. However, it is not based on a specific channel survey. Neither water depths nor water levels were outputs specified when we commissioned this generalised modelling for the Flood Zones. Whilst the modelling process does provide some information on depth of water, it would have been possible to produce the flood extents without storing the water depth values, since water depth is only a 'by-product' of the calculation process. As this type of modelling was developed, tested and reviewed for production of the Flood Zone extents only, we have no information on the accuracy of the water depth data. Water depth or level outputs from this model are only suitable to be used for decision making at a broad catchment scale and is not fit for the purpose of a site-specific flood risk assessment.

For your information we have supplied maps showing the water depths derived from JFLOW for the 1% AEP (100yr) and 0.1% AEP (1000yr) fluvial modelled flood scenarios.

Please note - The Environment Agency is currently carrying out a project to update the National Generalised model (JFLOW). The New National Model outputs are expected in Spring 2025. Our published flood risk information for this area will be updated using outputs from the New National Model and this is expected to take place in late 2025 (current programme which may change). This will be carried out as part of the National project to update our national flood risk mapping and modelling information across England and will incorporate outputs from detailed local models together with updated National modelling.

Customer & Engagement, Wessex
Rivers House, East Quay, Bridgwater, Somerset, TA6 4YS
Email: wessexenquiries@environment-agency.gov.uk
www.environment-agency.gov.uk

The New National Modelling (NNM) is a set of models for rivers, surface water and the sea covering the whole of England. The NNM has been created to fill in gaps where we don't have local hydraulic models, our local models require updating or we need additional model scenarios such as climate change runs.

Please also note - we are currently carrying out a National project to update our flood risk information for the whole of England. We will be updating our flood risk information in 2025 as part of the new National Flood Risk Assessment (NaFRA2). This will include the data displayed on the Check Your Long-Term Flood Risk service and the data displayed in the Flood Map for Planning (Rivers and Sea).

This should result in improvements to our mapping products, especially where we do not currently have any detailed local modelling. This means there will be some changes to our flood risk information in many areas when the new data is published.

You can find further information on the NaFRA2 project here: <https://www.gov.uk/guidance/updates-to-national-flood-and-coastal-erosion-risk-information>

For more information on climate change allowances please see the guidance on the Gov.UK website here: [Flood risk assessments: climate change allowances - GOV.UK](#). **Please be aware that this information is subject to change, please check the guidance regularly.**

Ordinary Watercourse

The watercourse adjoining this site is classed as an "Ordinary Watercourse" not a "Main River" under our control. Works to ordinary watercourses may require consent from either the Lead Local Flood Authorities or the Local Drainage Board.

Flood Asset Information

Please find enclosed details of Flood Assets within the area. This information has been taken from our Asset Information Management System database (AIMS).

Please note that flood defences can increase water levels elsewhere eg through channels being restricted by defences, or because defences prevent flood water flowing back into the river channel.

Planning

If you have questions regarding the planning nature of your enquiry, or require advice on floor levels, please contact our Sustainable Places team on wx.sp@environment-agency.gov.uk. Please be aware that we now charge for planning advice when consulted on pre-application enquiries. This new approach provides advice to developers in two ways. Firstly, there is the provision of 'free' advice available to everyone where we give a preliminary opinion on a proposed development. This sets out the environmental constraints together with any issues this raises for us. Should you wish us to review in detail any of these issues then we can do this through a chargeable scheme aimed at recovering our costs.

Strategic Flood Risk Assessment (SFRA)

When preparing a FRA to support a development proposal in this location you should refer to Wiltshire Council's SFRA Reports Level 1 which is available to download via the following link: https://www.wiltshire.gov.uk/media/5691/Strategic-Flood-Risk-Assessment-Level-1/pdf/Wiltshire_Council_Level_1_SFRA_v5.0.pdf?m=637459765054370000

The Wiltshire Council Local Plan is available via this link: <https://www.wiltshire.gov.uk/planning-policy-local-plan-review-consultation>

Further Information

We advise that you also contact the drainage engineer/ flood risk management team at Wiltshire Council by email: drainage@wiltshire.gov.uk, or by phone: 0300 456 0105, based at: Bythesea Road, Trowbridge, Wiltshire, BA14 8JN, as they may be able to provide further advice with respect to localised flooding and drainage issues.

Further details about the Environment Agency information supplied can be found on our website: <https://www.gov.uk/browse/environment-countryside/flooding-extreme-weather>

We hope you find this information helpful. It is provided subject to the attached notice 'Use of Environment Agency Information for Flood Risk Assessments', which we strongly recommend you read.

Yours sincerely

Amanda Dimarco

Customer & Engagement, Wessex
Rivers House, East Quay, Bridgwater, Somerset, TA6 4YS
Email: wessexenquiries@environment-agency.gov.uk

Enc: Use of Environment Agency Information for Flood Risk Assessments (below)
372705-WX 100yr JFLOW Depth Map (1%AEP)
372705-WX 1000yr JFLOW Depth Map (0.1%AEP)
372705-WX Defence Map
372705-WX Defence Data

Use of Environment Agency Information for Flood Risk Assessments (FRAs)

Important

Use of Environment Agency data: you should note that

1. Information supplied by the Environment Agency may be used to assist in producing a Flood Risk Assessment (FRA) where one is required, but the use of Environment Agency information does not constitute such an assessment on its own.
2. As part of your data request, we have provided all of the modelled data we hold for your location. Please note that some of our modelled information may have been produced for purposes other than for flood zone generation. This may mean that some of the modelled data you have been provided with has a lower confidence level, and has not been used in producing our flood map, nor definitively reflects the predicted flood water level at the property/development site scale. To check the suitability of the use of this information in your FRA please contact your local Partnership & Strategic Overview (PSO) team.
3. This information covers flood risk from main rivers and the sea, and you will need to consider other potential sources of flooding, such as groundwater or surface water runoff. The information produced by the Local Planning Authority and the Lead Local Flood Authority (LLFA) may assist in assessing other sources of flood risk.
4. Where a planning application requires a FRA and this is not submitted or deficient, the Environment Agency may well raise an objection.
5. For more significant proposals in higher flood risk areas, we would be pleased to discuss details with you ahead of making any planning application, and you should also discuss the matter with your Local Planning Authority.

Pre-Planning Advice from the Environment Agency

If you have requested this information to help inform a development proposal, then we recommend that you undertake a formal pre-application enquiry using the form available from our website:

Pre-application Preliminary Opinion:

<https://www.gov.uk/government/publications/pre-planning-application-enquiry-form-preliminary-opinion>

Pre-application Charged Service:

<https://www.gov.uk/government/publications/planning-advice-environment-agency-standard-terms-and-conditions>

Depending on the enquiry we may also provide advice on other issues related to our responsibilities, including flooding, waste, land contamination, water quality, biodiversity, navigation, pollution, water resources, foul drainage or Environmental Impact Assessment.

Flood Risk Assessment (FRA) Guidance

You should refer to the Planning Practice Guidance of the National Planning Policy Framework (NPPF) and the Environment Agency's Flood Risk Standing Advice for information about Flood Risk Assessment (FRA) for new development in the different Flood Zones. These documents can be accessed via:

National Planning Policy Framework Planning Practice Guidance:

<http://planningguidance.planningportal.gov.uk/>

Environment Agency advice on FRAs:

<https://www.gov.uk/flood-risk-assessment-for-planning-applications#when-to-follow-standing-advice>

<https://www.gov.uk/government/publications/planning-applications-assessing-flood-risk>

Appendix 7

Documentation Validation quick check

Outline	Full	Reserved Matters	Document to be submitted	Submitted?	Format of Evidence		Document Names
#VALUE!	#VALUE!		Flood Risk Assessment / Statement				
#VALUE!	#VALUE!		Drainage Strategy / Statement & sketch layout plan				
#VALUE!	#VALUE!		Preliminary layout drawings				
#VALUE!			Preliminary "Outline" hydraulic calculations				
#VALUE!			Preliminary landscape proposals				
#VALUE!			Ground investigation report (for infiltration)				
#VALUE!	#VALUE!		Evidence of third party agreement for discharge to their system (in principle/ consent to discharge)				
	#VALUE!		Maintenance program and on-going maintenance responsibilities				
	#VALUE!	#VALUE!	Detailed development layout				
	#VALUE!	#VALUE!	Detailed flood & drainage design drawings				
	#VALUE!	#VALUE!	Full Structural, hydraulic & ground investigations				
	#VALUE!	#VALUE!	Geotechnical factual and interpretive reports,including infiltration reports				
	#VALUE!	#VALUE!	Evidence of measures to prevent pollution of the receiving groundwater and/or surface waters				
	#VALUE!	#VALUE!	Drawings showing conveyance routes for flows exceeding the 1 in 100 year plus climate change				
	#VALUE!	#VALUE!	Detailed landscaping details				
	#VALUE!	#VALUE!	Discharge agreements (temporary and permanent)				
	#VALUE!	#VALUE!	Development Management & Construction				
	#VALUE!	#VALUE!	Phasing Plan				

Detailed Technical Check List

					To be populated by the applicant		
Outline	Full	Reserved Matters	<--- STAGE OF APPLICATION ("Y" DENOTES REQUIRED INFORMATION RELEVANT TO STAGE)	Further Context / Useful Links	Has this been provided?	Justification for not supplying information	Where has this been information been provided?
			Flood Risk Assessment / Statement				
			<i>Has a Flood Risk Assessment been Provided which assesses flood risk from all sources, and assesses the suitability of the development in line with its Flood Vulnerability Classification (as per PPG). Specific flood risk sources, are outlined below</i>	Wiltshire Flood Maps: https://wiltscouncil.maps.arcgis.com/apps/webappviewer/index.html?id=28c00215d87b468a9a0cd79c63d3d270			
Y	Y		Records of historic Flooding (based historic flood records, SFRA, consultee concerns on planning portal (where there are adjacent / historic applications, and S19 investigation reports)		Yes		FRA
Y	Y		Risk of Pluvial Flooding?		Yes		FRA
Y	Y		Risk of Groundwater Flooding?		Yes		FRA
Y	Y		Risk of Reservoir Flooding?		Yes		FRA
Y	Y		Risk of Canal Flooding?		Yes		FRA
Y	Y		Risk of Sewer Flooding?		Yes		FRA
Y	Y		Risk of Fluvial Flooding (including climate change allowances)?		Yes		FRA
Y	Y		Has a SEQUENTIAL TEST been undertaken? :	https://www.gov.uk/guidance/flood-risk-and-coastal-change#The-Exception-Test-section	N/A	Development located in Flood Zone 1, Sequential Test passed	N/A
Y	Y		Evidence of sequential approach to the site layout i.e. the most vulnerable development should be steered to the areas at lowest flood risk		Yes	All built development located in Flood Zone 1	N/A
Y	Y		If required, evidence of the EXCEPTION required (MAJOR DEVELOPMENTS ONLY) and based on the Vulnerability Classification)?	Sequential test & Exception test: https://www.gov.uk/guidance/flood-risk-and-coastal-change#The-Exception-Test-section	N/A		N/A
			Surface Water Drainage Strategy	All drainage systems must comply with the National SuDS Standards, unless the Wiltshire Council Standard provides a stricter level of restriction. Applicants should expect to provide a matrix of how they have complied with the National SuDS Standards in full			
			<i>We would expect the following information to be provided as part of the drainage strategy for the site. To aid clarity, we have broken this down by theme</i>				
			Existing Runoff Rates				
Y	Y		Catchment plans showing the existing catchment areas draining to each outfall	The applicant should provide catchment plans showing the current catchment areas which drain to an outfall. This is to ensure that calculations of existing discharge rates (either greenfield or brownfield) accurately represent the current drainage regime, therefore avoiding increasing catchment areas draining to a specific outfall (i.e. catchment transfer).	Yes		Plan 9740/501
Y	Y		Calculations for Greenfield runoff rates using one of two methods: 1. Flood Estimation Handbook (FEH); or 2. Institute of Hydrology Report 124 (IH124) based on Flood Studies Report (FSR)	The applicant should undertake greenfield runoff calculations using both the FEH and FSR datasets and select the most conservative rainfall dataset for their specific site. If this comparison cannot be undertaken, the applicant should provide justification for this.	No	Calculations for FEH rainfall provided. However, in line with National Standards a value of 3l/s/ha has been used for greenfield runoff as this is higher than FEH value	FRA
Y	Y		If applicable, calculations for Brownfield Site existing discharge rates	Only relevant for brownfield sites. The calculations can be provided in the form of hydraulic model outputs from an existing drainage model or can be based on Modified Rational Method Calculations in accordance with the Wallingford Procedure.	N/A	Greenfield Site	N/A
			Surface Water Drainage Hierarchy and Point of Discharge Requirements				
Y	Y		Evidence the surface water disposal hierarchy (outlined below) has been implemented: a) Surface water runoff is collected for use. b) Discharge into the ground via infiltration. c) Discharge to a watercourse or other surface water body. d) Discharge to surface water sewer e) Discharge to another drainage system (e.g. highways drainage) which ultimately discharges to a watercourse / waterbody f) Discharge to a combined sewer.	As per National SuDS Standards Additional requirements dependent on the level of the hierarchy are detailed below.	Yes	Discharge to watercourse	FRA
			Where an Infiltration Based Drainage Strategy is Proposed				
Y	Y	Y	Soakaway tests carried out in accordance with BRE365 methodology at the location and depth of proposed soakaway features. Test logs, and calculations of infiltration rates to be provided	Wiltshire Council Soakaway Guidance CIRIA C753 BRE Digest 365	N/A		
Y	Y	Y	Desk study, supported by ground investigations to establish the peak winter groundwater level.	Wiltshire Council Soakaway Guidance CIRIA C753 BRE Digest 365	N/A		
	Y	Y	For sites in chalk-based geologies (or where there is a risk of dissolution features forming), desk study supported by ground investigations to establish the density and dissolution risk of the underlying chalk.	Wiltshire Council Soakaway Guidance CIRIA C753 BRE Digest 365 CIRIA C753	N/A		
Y	Y	Y	Calculations that demonstrate that the soakaway has been designed for: • 1 in 100yr + cc flows (for multiple properties) • 1 in 10yr + cc flows (for individual properties) • Half drain time <24hrs • Appropriate factor of safety in line with CIRIA C753 (Table 25.2) guidance has been included.	Wiltshire Council Soakaway Guidance CIRIA C753 BRE Digest 365	N/A		

	Y	Y	Demarcation on drainage plan drawings showing the minimum clearance (5m / 10m / 20m depending on underlying ground conditions and dissolution risk) from point-soakaway to structures, buildings, public highways, site boundaries, other soakaways	Wiltshire Council Soakaway Guidance CIRIA C753 BRE Digest 365	N/A		
	Y	Y	Details of how silt ingress into soakaways will be prevented, to ensure that soakaway performance is maintained across its full design life, and does not fail due to siltation over time	CIRIA C753 National SuDS Standards	N/A		
			Where an Attenuation Based Drainage Strategy is Proposed (i.e. Discharge to watercourse, sewers etc.)				
	Y	Y	Catchment plans showing the proposed (post-development) catchment areas draining to each outfall		Yes		Plan 9740/501
Y	Y	Y	Proposed discharge rates from the site (post-development) in compliance with Wiltshire Council's policy for Discharge Rates. Proposed Discharge Rates to be provided for the 1 in 1, 1in 30, 1 in 100yr events, including climate change allowances in line with EA Guidance	Wiltshire Council Discharge Rate Policy	Yes	Discharge restricted to 3l/s/ha in line with National SuDS guidance	FRA
Y	Y	Y	When discharging to an above ground surface water body, sewer or other piped drainage system, the surface water runoff volume for the 1 in 100yr, 6hr event shall be controlled to ensure the runoff from the development does not increase flood risk elsewhere	National SuDS Standards	Yes		FRA
Y	Y		Demonstration via plans that proposed attenuation features are located outside of Flood Zones 2 and 3, or that they are either protected from inundation from the 1 in 100yr + climate change flood event or adequately sized to accommodate the inundation volume in addition to the required attenuation	National SuDS Standards	Yes		Plan 9740/511
			Additional requirements where there is proposed discharge Highways Drainage System				
	Y	Y	There is no automatic right of connection to the highways drainage system, and therefore other methods of discharge should be prioritised. Where there is a request to discharge to the Highways Drainage Systems the following will also need to be provided: - CCTV condition survey from the proposed point of connection to the ultimate discharge point to watercourse / waterbody. - Hydraulic modelling of the existing highways drainage system - Hydraulic modelling to demonstrate that the proposed discharge can be fully and safely accommodated within the highways drainage system, without increasing flood risk to the highway in the 1in 100yr + climate change event. - Details of any proposed remedial works and mitigations to facilitate the discharge to the highways drainage system.		N/A		
			Additional requirements where there is proposed discharge to Sewer				
	Y	Y	Where there is a request to discharge to existing sewers the following will also need to be provided: - Agreement from the asset owner on the point and location of discharge - Any other information required by the asset owner		N/A		
			Drainage Calculations				
Y	Y	Y	Where relevant, infiltration calculations to size proposed infiltration based features and demonstrate compliance with the Council's Soakaway Policy		N/A		FRA
Y			Outline calculations to determine the volume of attenuation storage required on site in order to limit discharge rates in line with the Discharge Rate Policy		Yes		FRA
Y	Y	Y	Evidence shall be provided to demonstrate that Interception shall be delivered within the development for the first 5mm of rainfall for the majority of rainfall events, for both winter and summer seasons. This is to prevent runoff from the site for the majority of small (frequent) rainfall events and for the initial depth of rainfall for larger events. For compliance to be demonstrated, 80% interception shall be achieved during the summer (May to October) and 50% in winter (November to April).	National SuDS Standards	Yes		FRA
	Y	Y	Detailed hydraulic calculations demonstrating that the required discharge rates in line with WC policy/ external asset owner agreements are met whilst also demonstrating: • Calculations and drawings for the drainage system design showing designated holding areas and conveyance routes based on no flooding on site for a 1 in 30 year plus climate change rainfall event. • Calculations and drawings for the drainage system design showing designated holding areas and conveyance routes based on no flooding on site for a 1 in 100 year plus climate change rainfall event in respect to a building (including basement) or utility plant susceptible to water within the development. • Calculations should include an allowance for increased surface water runoff, as a result of urban creep, in accordance with LASOO guidance. • Hydraulic Models should set the MADD factor / additional storage volume factor to 0m3 / ha in order to prevent an overestimation of storage capacity in the proposed drainage network. • If attenuation tanks are proposed that an allowance for reduced attenuation volume due to silt ingress (as per Section 21.9.9 of the SuDS Manual CIRIA C753)		Yes		FRA & Calcs - 10% urban creep included
	Y	Y	Evidence that a sensitivity analysis on the network considering surcharged outfall conditions has been undertaken.	National SuDS Standards	Yes		FRA
	Y	Y	Evidence that in attenuation basins / infiltration basins / ponds, a min 300mm freeboard above the critical 1 in 100yr + cc storm is achieved		Yes		FRA
	Y	Y	Demonstration that in the 1 in 30yr storm event, attenuation / infiltration features half drain within 24hrs		N/A	Infodrainage unable to provide this result for attenuation features	
	Y	Y	Water quality calculations based on a developed SuDS Treatment Train (and not a Pipe-to-Pond) to demonstrate that water quality within surface water runoff can be appropriately managed to prevent an increased pollution risk.	National SuDS Standards	Yes		FRA
	Y	Y	Structural calculations to demonstrate that proposed drainage components are sufficiently designed to resist anticipated forces. (Depending on the system this may require consideration of vertical and lateral loads)		No	To be provided at detailed design via condition	
			Drainage Drawings				
Y			Preliminary layout plans showing the existing site location, and proposed drainage strategy for the site (to an outline design level of detail)		Yes		FRA
	Y	Y	A detailed topographical survey that clearly identifies the existing drainage features on the site as well as level contours to show overland flow routes.		Yes		FRA Appendix 2

	Y	Y	A detailed plan showing the existing and proposed drainage features on the site and how the proposed drainage strategy will be implemented. Pipe numbers, manhole numbers etc. should link to those used in the hydraulic model so as the design can be correlated. Nature based SuDS Solutions shall be included within the design in accordance with NPPF, and holistically planned into the overall development layout.		No	To be provided at detailed design via condition	
	Y	Y	Demonstration on drainage drawings that finished floor levels will be set a min 150mm above surrounding ground levels and above the 1 in 100yr + cc flood level, and in areas where the 100yr + cc flood depth is uncertain that FFL are set mm above this in line with EA Guidance		Yes		FRA & Plan 9740/501
	Y	Y	Drawing showing how overland exceedance flows in excess of the 1 in 100yr + cc storm event will be wholly and safely managed on site, such that flood risk is not increased to people, property, public highways. Existing overland flow routes and watercourses originating outside of the site and flowing through the site should be shown on the plan to demonstrate how these will be managed.	National SuDS Standards	Yes		FRA & Plan 9740/501
	Y	Y	Cross-section and long-section drawings through any attenuation and infiltration features showing top water levels for the 1 in 100yr + cc storm event		No	To be provided at detailed design via condition	
			Management of Safe Access / Egress from the site				
Y	Y		If access to the site (vehicular or pedestrian) predicted to flood, evidence that the Flood Hazard Rating has been assessed in accordance with FD2320 Guidance and PPG with regards maintaining safe access/ egress during the design storm.		No	Access outside of 1:100 year (FZ3) modelled floodplain. Access rasied above 1:100 yr + CC flood level.	FRA
	Y	Y	If access to the site (vehicular or pedestrian) predicted to flood, evidence of an emergency plan in place that has been agreed with Wiltshire Council.	Guidance on the preparation of an emergency plan can be found here. https://www.adeptnet.org.uk/floodriskemergencyplan	No	Access outside of 1:100 year (FZ3) modelled floodplain. Access rasied above 1:100 yr + CC flood level.	FRA
			Construction Management				
	Y	Y	Provision of a Construction Management Plan detailing measures during construction to control pollution to existing watercourses and groundwater, and prevent an increase in flood risk.		Yes		FRA
			Contamination water quality				
	Y	Y	Production of contamination risk assessment for brownfield / contaminated sites / sites that are shown to interact with sensitive environmental receptors (SPZ1, Principal Aquifers, RAMSAR sites, SSSI etc.) to demonstrate contamination risk will be appropriately managed		Yes		SI Report
	Y	Y	Calculations which demonstrate that the proposed drainage design provides a sufficient level of water treatment.		Yes		FRA
			Amenity and biodiversity				
	Y	Y	Evidence that the drainage proposal takes opportunities available for improving the character and quality of the area through the provision of amenity, biodiversity, maintaining water quality and climate change resilience in accordance with the National Planning Policy Guidance.	National SuDS Standards	Yes		FRA
			Legal and Permissions				
	Y	Y	Consent for any outfalls from the proposed drainage systems into a public sewer, canal, or other drainage system not owned by the applicant.		N/A	Owned by applicant	
	Y	Y	Evidence of permissions to cross third party land and permissions from riparian owners to discharge to the watercourse/river in perpetuity.		N/A	Owned by applicant. Permission to consturct outfall to ordinary watercourse will be sought from LPA following consent	
			Maintenance				
	Y	Y	Evidence of clear arrangements for the ownership and ongoing maintenance of the SUDS over the lifetime of the development		Yes	Draft maintenance schedule included in FRA	FRA
	Y	Y	Details of how the proposed and existing drainage features on the site will be maintained and managed after completion with confirmation from the relevant authority that they will adopt any systems that are being offered for adoption. This must include access arrangements / access easements, proposed maintenance activities, maintenance frequency, responsible parties, and funding mechanisms for ongoing maintenance		Yes	Draft maintenance schedule included in FRA	FRA
	Y	Y	Where the design life of proposed drainage features is less than the design life of the development, details of how the drainage will be replaced at the end of its design life	National SuDS Standards	N/A		

Pre-app	Outline	Full	Reserved Matters	Discharge of Conditions	Document to be submitted	Sumbitted?	Document Names
#VALUE!	#VALUE!	#VALUE!			Flood Risk Assessment / Statement		
#VALUE!	#VALUE!	#VALUE!			Drainage Strategy / Statement & sketch layout plan		
	#VALUE!				Preliminary "Outline" hydraulic calculations		
	#VALUE!	#VALUE!			Ground investigation report (for infiltration)		
	#VALUE!	#VALUE!	#VALUE!	#VALUE!	Evidence of third party agreement for discharge to their system (in principle/ consent to discharge)		
		#VALUE!		#VALUE!	Maintenance program and on-going maintenance responsibilities		
		#VALUE!	#VALUE!	#VALUE!	Detailed flood & drainage design drawings		
		#VALUE!	#VALUE!	#VALUE!	Evidence of measures to prevent pollution of the receiving groundwater and/or surface waters		

Non-major development

Pre-app	Outline	Full	Reserved matters	Discharge of conditions	Document to be submitted
✓	✓	✓			Flood Risk Assessment / Statement.
✓	✓	✓			Drainage Strategy / Statement & sketch layout plan.
	✓				Preliminary "Outline" hydraulic calculations
	✓	✓			Ground investigation report (for infiltration)
	✓	✓	✓	✓	Evidence of third party agreement for discharge to their system (consent to discharge)
		✓		✓	Maintenance program and on-going maintenance responsibilities
		✓	✓	✓	Detailed flood & drainage design drawings
		✓	✓	✓	Evidence of measures to prevent pollution of the receiving groundwater and/or surface waters

Detailed Technical Check List

					To be populated by the applicant		
Outline	Full	Reserved Matters	<--- STAGE OF APPLICATION ("Y" DENOTES REQUIRED INFORMATION RELEVANT TO STAGE)	Further Context / Useful Links	Has this been provided?	Justification for not supplying information	Where has this been information been provided?
Y	Y	Y	Flood Risk Assessment / Statement				
			<i>Has a Flood Risk Assessment been Provided which assesses flood risk from all sources, and assesses the suitability of the development in line with its Flood Vulnerability Classification (as per PPG). Specific flood risk sources, are outlined below</i>	Wiltshire Flood Maps: https://wiltscouncil.maps.arcgis.com/apps/webappviewer/index.html?id=28c00215d87b468a9a0cd79c63d3d270			
Y	Y		Records of historic Flooding (based historic flood records, SFRA, consultee concerns on planning portal (where there are adjacent / historic applications, and S19 investigation reports)				
Y	Y		Risk of Pluvial Flooding?				
Y	Y		Risk of Groundwater Flooding?				
Y	Y		Risk of Reservoir Flooding?				
Y	Y		Risk of Canal Flooding?				
Y	Y		Risk of Sewer Flooding?				
Y	Y		Risk of Fluvial Flooding (including climate change allowances)?				
Y	Y	Y	Surface Water Drainage Strategy				
			<i>We would expect the following information to be provided as part of the drainage strategy for the site. To aid clarity, we have broken this down by theme</i>				
Y	Y	Y	Existing Runoff Rates				
			Catchment plans showing the existing catchment areas draining to each outfall	The applicant should provide catchment plans showing the current catchment areas which drain to an outfall. This is to ensure that calculations of existing discharge rates (either greenfield or brownfield) accurately represent the current drainage regime, therefore avoiding increasing catchment areas draining to a specific outfall (i.e. catchment transfer).			
Y	Y						
			Calculations for Greenfield runoff rates using one of two methods: 1. Flood Estimation Handbook (FEH); or 2. Institute of Hydrology Report 124 (IH124) based on Flood Studies Report (FSR)	The applicant should undertake greenfield runoff calculations using both the FEH and FSR datasets and select the most conservative rainfall dataset for their specific site. If this comparison cannot be undertaken, the applicant should provide justification for this.			
Y	Y						
			If applicable, calculations for Brownfield Site existing discharge rates	Only relevant for brownfield sites. The calculations can be provided in the form of hydraulic model outputs from an existing drainage model or can be based on Modified Rational Method Calculations in accordance with the Wallingford Procedure.			
Y	Y						
Y	Y	Y	Surface Water Drainage Hierarchy and Point of Discharge Requirements				
			Evidence the surface water disposal hierarchy (outlined below) has been implemented: a) Surface water runoff is collected for use. b) Discharge into the ground via infiltration. c) Discharge to a watercourse or other surface water body. d) Discharge to surface water sewer e) Discharge to another drainage system (e.g. highways drainage) which ultimately discharges to a watercourse / waterbody f) Discharge to a combined sewer.	Additional requirements dependent on the level of the hierarchy are detailed below.			
Y	Y						
Y	Y	Y	Where an Infiltration Based Drainage Strategy is Proposed				
			Soakaway tests carried out in accordance with BRE365 methodology at the location and depth of proposed soakaway features. Test logs, and calculations of infiltration rates to be provided	Wiltshire Council Soakaway Guidance CIRIA C753 BRE Digest 365			
Y	Y	Y					
			Desk study, supported by ground investigations to establish the peak winter groundwater level.	Wiltshire Council Soakaway Guidance CIRIA C753 BRE Digest 365			
Y	Y	Y					
	Y	Y	For sites in chalk-based geologies (or where there is a risk of dissolution features forming), desk study supported by ground investigations to establish the density and dissolution risk of the underlying chalk.	Wiltshire Council Soakaway Guidance CIRIA C753 BRE Digest 365 CIRIA C753			
			Calculations that demonstrate that the soakaway has been designed for: • 1 in 100yr + cc flows (for multiple properties) • 1 in 10yr + cc flows (for individual properties) • Half drain time <24hrs • Appropriate factor of safety in line with CIRIA C753 (Table 25.2) guidance has been included.	Wiltshire Council Soakaway Guidance CIRIA C753 BRE Digest 365			
Y	Y	Y					
	Y	Y	Demarcation on drainage plan drawings showing the minimum clearance (5m / 10m / 20m depending on underlying ground conditions and dissolution risk) from point-soakaway to structures, buildings, public highways, site boundaries, other soakaways	Wiltshire Council Soakaway Guidance CIRIA C753 BRE Digest 365			
	Y	Y	Details of how silt ingress into soakaways will be prevented, to ensure that soakaway performance is maintained across its full design life, and does not fail due to siltation over time				
Y	Y	Y	Where an Attenuation Based Drainage Strategy is Proposed (i.e. Discharge to watercourse, sewers etc.)				
	Y	Y	Catchment plans showing the proposed (post-development) catchment areas draining to each outfall				
Y	Y	Y	Proposed discharge rates from the site (post-development) in compliance with Wiltshire Council's policy for Discharge Rates. Proposed Discharge Rates to be provided for the 1 in 1, 1in 30, 1 in 100yr events, including climate change allowances in line with EA Guidance	Wiltshire Council Discharge Rate Policy			

Y	Y		Demonstration via plans that proposed attenuation features are located outside of Flood Zones 2 and 3, or that they are either protected from inundation from the 1 in 100yr + climate change flood event or adequately sized to accommodate the inundation volume in addition to the required attenuation					
Y	Y	Y	Additional requirements where there is proposed discharge Highways Drainage System					
			There is no right of connection to the highways drainage system, and therefore other methods of discharge should be prioritised. Where there is a request to discharge to the Highways Drainage Systems the following will also need to be provided: - CCTV condition survey from the proposed point of connection to the ultimate discharge point to watercourse / waterbody. - Hydraulic modelling of the existing highways drainage system - Hydraulic modelling to demonstrate that the proposed discharge can be fully and safely accommodated within the highways drainage system, without increasing flood risk to the highway in the 1 in 100yr + climate change event. - Details of any proposed remedial works and mitigations to facilitate the discharge to the highways drainage system.					
Y		Y	Additional requirements where there is proposed discharge to Sewer					
			Where there is a request to discharge to existing sewers the following will also need to be provided: - Agreement from the asset owner on the point and location of discharge - Any other information required by the asset owner					
Y		Y	Drainage Calculations					
Y	Y	Y	Evidence shall be provided to demonstrate that Interception shall be delivered within the development for the first 5mm of rainfall for the majority of rainfall events, for both winter and summer seasons. This is to prevent runoff from the site for the majority of small (frequent) rainfall events and for the initial depth of rainfall for larger events. For compliance to be demonstrated, 80% interception shall be achieved during the summer (May to October) and 50% in winter (November to April).	National SuDS Standards			Y	Y
Y	Y	Y	Where relevant, infiltration calculations to size proposed infiltration based features and demonstrate compliance with the Council's Soakaway Policy					Y
Y			Outline calculations to determine the volume of attenuation storage required on site in order to limit discharge rates in line with the Discharge Rate Policy					
	Y	Y	Evidence that in attenuation basins / infiltration basins / ponds, a min 300mm freeboard above the critical 1 in 100yr + cc storm is achieved					
	Y	Y	Water quality calculations to demonstrate that water quality within surface water runoff can be appropriately managed to prevent an increased pollution risk.					
Y		Y	Drainage Drawings					
Y	Y	Y	Preliminary layout plans showing the existing site location, and proposed drainage strategy for the site (to an outline design level of detail)					
	Y	Y	Demonstration on drainage drawings that finished floor levels will be set a min 150mm above surrounding ground levels and above the 1 in 100yr + cc flood level, and in areas where the 100yr + cc flood depth is uncertain that FFL are set mm above this in line with EA Guidance					
	Y	Y	Drawing showing how overland exceedance flows in excess of the 1 in 100yr + cc storm event will be wholly and safely managed on site, such that flood risk is not increased to people, property, public highways. Existing overland flow routes and watercourses originating outside of the site and flowing through the site should be shown on the plan to demonstrate how these will be managed.					
Y		Y	Management of Safe Access / Egress from the site					
Y	Y		If access to the site (vehicular or pedestrian) predicted to flood, evidence that the Flood Hazard Rating has been assessed in accordance with FD2320 Guidance and PPG with regards maintaining safe access/ egress during the design storm.					
	Y	Y	If access to the site (vehicular or pedestrian) predicted to flood, evidence of an emergency plan in place that has been agreed with Wiltshire Council.	Guidance on the preparation of an emergency plan can be found here. https://www.adeptnet.org.uk/floodriskemergencyplan				
Y		Y	Contamination water quality					
	Y	Y	Calculations which demonstrate that the proposed drainage design provides a sufficient level of water treatment.					
Y		Y	Legal and Permissions					
	Y	Y	Consent for any outfalls from the proposed drainage systems into a public sewer, canal, or other drainage system not owned by the applicant.					
	Y	Y	Evidence of permissions to cross third party land and permissions from riparian owners to discharge to the watercourse/river in perpetuity.					
Y		Y	Maintenance					
	Y	Y	Evidence of clear arrangements for the ownership and ongoing maintenance of the SUDS over the lifetime of the development					
		Y	Details of how the proposed and existing drainage features on the site will be maintained and managed after completion with confirmation from the relevant authority that they will adopt any systems that are being offered for adoption. This must include access arrangements / access easements, proposed maintenance activities, maintenance frequency, responsible parties, and funding mechanisms for ongoing maintenance					
	Y	Y	Where the design life of proposed drainage features is less than the design life of the development, details of how the drainage will be replaced at the end of its design life	National SuDS Standards				