Appendix 3

Trial Pit Logs, TP1 to TP33 & Stockpile Pits

Cable Percussive Borehole Logs, CP1 to CP12

Site Photographs

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TrialPit No
TP01
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524757.00 - 319919.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 4.00m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES					TOPSOIL: Brown slightly sandy silty CLAY.
			0.80			Soft brown silty sandy CLAY.
1.30	D					
1.30		HVP=18				
			1.80			Grey silty clayey fine grained SAND.
						Rare organic material from 3.5m.
			4.00			Trialpit Complete at 4.000m

Remarks: Pit terminated at 4.0m at maximum reach of excavator. Groundwater not encountered.

Stability: Side collapse from 1.8m.

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TrialPit No
TP02
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524806.00 - 319991.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 2.20m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.20	ES					TOPSOIL: Brown slightly clayey sandy SILT.
			0.40			
0.60	ES					Greyish brown to orangish brown clayey silty fine grained SAND.
			2.20			Trialpit Complete at 2.200m

Remarks: Pit terminated at 2.2m at target depth for infiltration test. Groundwater not encountered.

Stability: Side collapse from surface during infiltration test.

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TrialPit No
TP03
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524726.00 - 319991.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 4.20m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES					TOPSOIL: Brown slightly sandy clayey SILT.
			0.70			
0.80	D					Soft brown to black silty sandy CLAY, with black organic material.
0.80	D					
0.80		HVP=30				
			1.20			
1.30	B					Greyish brown to orangish brown silty very clayey SAND.
			2.30			
						Grey clayey silty fine grained SAND.
			3.30			
						Soft to very soft grey silty sandy CLAY, with pockets of peat.
3.60		HVP=10				
			4.20			
						Trialpit Complete at 4.200m

Remarks: Pit terminated at 4.2m at maximum reach of excavator. Groundwater not encountered.

Stability: Side collapse from 1.2m.

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TrialPit No
TP04
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524748.00 - 320033.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m Depth: 3.10m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES					TOPSOIL: Brown silty sandy CLAY.
			0.60			Firm greyish brown to orangish brown silty sandy CLAY.
0.80 0.80	B	HVP=51				*Slow groundwater seepage at 0.8m.*
			1.40			
1.50	ES					Soft to very soft grey to orangish brown silty CLAY, with organic material and pockets of peat.
2.00		HVP=9				
			3.10			Trialpit Complete at 3.100m

Remarks: Pit terminated at 3.1m at target depth. Slow groundwater seepage at 0.8m.

Stability: Stable.

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TrialPit No
TP05
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524679.00 - 320012.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 4.00m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown slightly sandy silty CLAY.
0.30	ES					
			0.60			Firm becoming soft greyish brown to orangish brown silty sandy CLAY.
						Black organic material between 0.6 to 0.8m.
0.80	D					
0.80		HVP=43				
1.60		HVP=16				*Groundwater seepage at 1.6m.*
			1.80			Soft to very soft grey slightly sandy silty CLAY, with pockets of peat.
			4.00			Trialpit Complete at 4.000m

Remarks: Pit terminated at 4.0m at maximum reach of excavator. Groundwater seepage at 1.6m.

Stability: Stable.

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TrialPit No
TP06
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524700.00 - 320057.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m Depth: m 2.50m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Dark brown silty sandy CLAY.
			0.40			Firm brown silty sandy CLAY.
1.00		HVP=61				
			1.60			Very soft grey silty CLAY, with pockets of peat. *Groundwater seepage at 1.6m.*
2.40		HVP=6				
			2.50			Trialpit Complete at 2.500m

Remarks: Pit terminated at 2.5m at target depth. Groundwater seepage at 1.6m.

Stability: Stable.

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TrialPit No
TP07
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524614.00 - 320040.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.90m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES					TOPSOIL: Brown slightly sandy clayey SILT.
			0.90			Greyish brown to orangish brown clayey silty fine grained SAND, with rare black organic material.
						Groundwater seepage at 1.4m.
			1.60			Soft to very soft grey slightly sandy silty CLAY, with pockets of peat.
1.80		HVP=9				
			3.90			Trialpit Complete at 3.900m

Remarks: Pit terminated at 3.9m at maximum reach of excavator. Groundwater seepage at 1.4m.

Stability: Stable.

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TrialPit No
TP08
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524634.00 - 320083.00	Date
Lincs Gateway	46934	Level:	13/04/2052
Location: Spalding		Dimensions: m Depth: m 3.50m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES		0.40			TOPSOIL: Brown clayey sandy SILT.
0.60	ES		0.70			Greyish brown to orangish brown clayey silty fine grained SAND.
0.95		HVP=26				Soft greyish brown to orangish brown silty sandy CLAY.
			1.50			*Slow groundwater seepage at 1.4m.*
1.60 1.60	ES	HVP=16				Soft to very soft greyish brown to grey silty CLAY, with occasional organic material and pockets of peat (frequency increases with depth).
			3.50			Trialpit Complete at 3.500m

Remarks: Pit terminated at 3.5m at maximum reach of excavator. Slow groundwater seepage at 1.4m.

Stability: Stable.

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TrialPit No
TP09
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524551.00 - 320064.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.80m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.00			TOPSOIL: Brown slightly sandy clayey SILT.
			0.60			Greyish brown to orangish brown clayey silty fine grained SAND.
0.80	D					
			1.40			Soft greyish brown to orangish brown silty CLAY. Partially lithified/desiccated where roots/dead roots present.
1.60	B					*Fast groundwater seepage at 1.6m.*
1.80		HVP=15				
			2.10			Soft to very soft grey silty CLAY, with pockets of peat.
			3.80			Trialpit Complete at 3.800m

Remarks: Pit terminated at 3.8m at maximum reach of excavator. Fast groundwater seepage at 1.6m.

Stability: Stable.

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TrialPit No
TP10
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524581.00 - 320131.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 4.00m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.20	ES		0.30			TOPSOIL: Brown slightly clayey sandy SILT.
			0.90			Greyish brown to orangish brown silty fine grained SAND.
1.20	B		1.40			Firm greyish brown silty CLAY. *Black organic material at 1.2m.*
1.50		HVP=14	4.00			Soft to very soft grey silty CLAY, with organic material. *Slow groundwater seepage at 1.8m.* Trialpit Complete at 4.000m

Remarks: Pit terminated at 4.0m at maximum reach of excavator. Slow groundwater seepage at 1.8m.

Stability: Stable.

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TrialPit No
TP11
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524469.00 - 320109.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 4.10m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Dark brown silty sandy CLAY.
0.30	ES					
			0.40			Greyish brown to orangish brown slightly clayey silty fine grained SAND.
			1.00			Soft grey silty CLAY, with pockets of peat. Reddish brown and desiccated around roots/dead roots. Abundance of peat and other organic material increases with depth.
1.10		HVP=28				
1.20	ES					
						Slow groundwater seepage at 1.4m.
			4.10			Trialpit Complete at 4.100m

Remarks: Pit terminated at 4.1m at maximum reach of excavator. Slow groundwater seepage at 1.4m.

Stability: Stable.

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TrialPit No
TP12
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524489.00 - 320173.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.40m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.20	ES		0.30			TOPSOIL: Brown slightly clayey sandy SILT.
0.60	ES		0.80			Greyish brown to orangish brown silty fine grained SAND.
1.00		HVP=26	1.40			Soft greyish brown silty CLAY.
1.50	D					Soft to very soft grey silty CLAY, with organic material.
3.00		HVP=7	3.40			Trialpit Complete at 3.400m

Remarks: Pit terminated at 3.4m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP13
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524400.00 - 320139.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 2.90m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.50			TOPSOIL: Brown clayey sandy SILT.
0.80	ES					Firm greyish brown to orangish brown silty sandy CLAY.
0.90		HVP=51				
			1.30			Soft greyish brown silty CLAY.
						Slow groundwater seepage at 1.5m.
			1.90			Very soft grey silty CLAY, with organic material.
2.00		HVP=11				
			2.90			Trialpit Complete at 2.900m

Remarks: Pit terminated at 2.9m at target depth. Slow groundwater seepage at 1.5m.

Stability: Stable.

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TrialPit No
TP14
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524423.00 - 320206.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 1.70m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown sandy very clayey SILT.
			0.40			Greyish brown to orangish brown silty fine grained SAND.
			1.20			Soft to very soft greyish brown to grey silty CLAY. Reddish brown and desiccated around roots/dead roots.
1.30 1.30	D	HVP=17				*Slow groundwater seepage at 1.5m.*
			1.70			Trialpit Complete at 1.700m

Remarks: Pit terminated at 1.7m at target depth for infiltration test. Slow groundwater seepage at 1.5m.

Stability: Stable.

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TrialPit No
TP15
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524353.00 - 320196.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 3.80m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown clayey sandy SILT.
0.30	ES					
			0.50			Firm greyish brown to orangish brown silty sandy CLAY.
1.10		HVP=61				
			1.20			Soft to firm greyish brown silty CLAY.
1.30	B					
1.30	D					
						Slow groundwater seepage at 1.m.
			2.20			Very soft grey silty CLAY, with organic material.
2.50		HVP=11				
			3.80			Trialpit Complete at 3.800m

Remarks: Pit terminated at 3.8m at maximum reach of excavator. Slow groundwater seepage at 1.6m.

Stability: Stable.

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TrialPit No
TP16
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524709.00 - 319918.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 3.40m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown slightly sandy CLAY.
			0.30			Stiff locally firm brown sandy CLAY.
0.50	ES					
			1.10			Light brown mottled orange silty fine grained SAND. Locally soft sandy silt.
			1.40			Light brown very thinly bedded slightly silty fine grained SAND.
						Slightly wet below 1.6m.
			2.30			Grey mottled brown slightly silty fine grained SAND. Slightly wet.
			3.40			Trialpit Complete at 3.400m

Remarks: Pit terminated at 3.4m at target depth. Groundwater not encountered.

Stability: Side slumping at 2.3m

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TrialPit No
TP17
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524648.00 - 319946.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m Depth: m 3.20m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown slightly sandy CLAY.
			0.35			Light brown mottled orange slightly silty fine to medium grained SAND.
			1.00			Light brown very silty fine to medium grained SAND. Slightly wet.
						Land drain encountered at 1.2m.
1.50	B					
			2.10			Grey and occasionally mottled brown slightly silty fine grained SAND. Wet.
2.20	D					
			3.20			Trialpit Complete at 3.200m

Remarks: Pit terminated at 3.2m due to side collapse from 1.1m. Groundwater not encountered.

Stability: Side collapse from 1.1m.

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TrialPit No
TP18A
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524570.00 - 319975.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m Depth: m 4.00m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown slightly sandy CLAY.
			0.35			Light brown mottled orange very silty fine grained SAND.
						Land drain encountered at 0.9m.
			1.10			Soft brown to grey slightly sandy silty CLAY. Occasionally slightly wet.
1.50		HVP=31				
			2.10			Very soft bluish grey silty CLAY, with frequent gravel-sized pockets of dark brown fibrous peat and rotting plant material. Slightly wet.
						Slight groundwater ingress at 2.1m.
			4.00			Trialpit Complete at 4.000m

Remarks: Pit terminated at 4.0m at maximum reach of excavator. Slight groundwater ingress at 2.1m. TP18B excavated adjacent to TP18A for soakaway test.

Stability: Stable.

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TrialPit No
TP18B
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524570.00 - 319975.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 0.90m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown slightly sandy CLAY.
			0.30			Stiff grey slightly sandy CLAY.
			0.45			Light brown very silty fine grained SAND.
			0.70			Stiff brown and grey slightly sandy CLAY.
			0.90			Trialpit Complete at 0.900m

Remarks: Pit terminated at 0.9m at target depth for infiltration test. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP19
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524495.00 - 320004.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 2.20m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown very clayey SAND.
			0.30			Light brown slightly silty fine grained SAND.
			0.90			Soft brown and grey slightly sandy silty CLAY. *Land drain encountered at 0.9m.* *Slight groundwater ingress at 1.1 m.*
1.40 1.40	D	HVP=26				
			2.00			Very soft bluish grey silty CLAY, with frequent gravel-sized pockets of dark brown fibrous peat and rotting plant material. Slightly wet.
			2.20			Trialpit Complete at 2.200m

Remarks: Pit terminated at 2.2m at target depth. Slight groundwater ingress at 1.1 m.

Stability: Stable.

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TrialPit No
TP20
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524406.00 - 320037.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.70m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					MADE GROUND: Brown gravelly SAND. Gravel of fine to coarse, angular brick and chert.
			0.40			
0.50	ES					MADE GROUND: Stiff brown CLAY, with occasional plastic.
			0.65			Light brown to grey silty fine grained SAND.
			0.80			Stiff grey mottled brown slightly sandy CLAY. Locally firm and slightly wet.
1.00		HVP=86				
			1.20			Firm brown silty CLAY. Slightly wet.
1.40		HVP=51				
						Soft below 1.6m.
1.70		HVP=22				
			2.40			Very soft grey silty CLAY, with frequent rotting plant material. Slightly wet.
2.90		HVP=16				
			3.70			Trialpit Complete at 3.700m

Remarks: Pit terminated at 3.7m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP21
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524355.00 - 320062.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.50m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					MADE GROUND: Brown slightly gravelly sandy CLAY. Gravel of fine to coarse, angular brick and chert. Gravel of brick, limestone and chert at surface.
			0.70			MADE GROUND: Brown slightly sandy CLAY, with pockets of light brown sandy silt. Frequent glass bottles and glass shards.
			1.00			Light greyish brown very silty fine grained SAND, with frequent gravel-sized pockets of dark brown amorphous peat.
1.20	ES					
			1.50			Very soft grey silty CLAY, with frequent gravel-sized pockets of dark brown pseudo-fibrous peat. Slightly wet.
1.70 1.70	D	HVP=19				
						Peat absent below 2.0m and frequent rotten plant material present.
			3.50			Trialpit Complete at 3.500m

1
2
3
4

Remarks: Pit terminated at 3.5m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP22
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524348.00 - 320001.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.70m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					MADE GROUND: Brown very gravelly SAND, with low cobble content. Gravel of fine to coarse, angular limestone, chert and brick. Cobbles of limestone.
			0.35			MADE GROUND: Grey fine grained SAND.
			0.50			Southern half of pit - MADE GROUND: Greyish brown slightly silty slightly sandy slightly gravelly CLAY, with occasional gravel to cobble-sized pockets of dark grey to black clay and rotting plant material. Gravel of fine to coarse, angular limestone and brick. Rare wood fragments.
						Northern half of pit (0.5-1.4m) - Light brown slightly clayey slightly silty fine grained SAND.
0.90	ES					*Land drain encountered at 0.6m.*
			1.60			Soft brown silty CLAY. Encountered from 1.4m below northern half of pit.
1.80		HVP=23				
1.90	B					
			2.00			Soft greyish brown silty CLAY, with frequent gravel-sized pockets of dark grey fibrous peat. Slightly wet.
2.50		HVP=20				
						Peat pockets become less frequent from 3.0m.
			3.70			Trialpit Complete at 3.700m

Remarks: Pit terminated at 3.7m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP23
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524382.00 - 319953.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 3.20m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL/MADE GROUND: Brown clayey gravelly SAND. Gravel of fine to coarse, angular chert and limestone with occasional brick, macadam and clinker.
			0.40			
0.50	ES					Light brown fine grained SAND.
			0.80			
						Soft brown silty CLAY.
1.20		HVP=29				
						Slight groundwater ingress at 1.5 m.
			2.30			
2.50		HVP=11				Very soft greyish brown silty CLAY, with frequent gravel-sized pockets of dark brown fibrous peat. Slightly wet.
			3.20			Trialpit Complete at 3.200m

Remarks: Pit terminated at 3.2m at target depth. Slight groundwater ingress at 1.5m.

Stability: Stable.

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TrialPit No
TP24
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524462.00 - 319920.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.60m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown sandy CLAY.
			0.35			Light brown mottled orangish brown slightly silty fine grained SAND.
			0.60			Soft light brown sandy CLAY.
			1.40			Very soft brown silty CLAY.
						Slight groundwater seepage at 1.5 m.
1.60		HVP=22				
			2.20			Very soft greyish brown silty CLAY, with frequent rotten plant material.
2.40	B					
2.60		HVP=16				
			3.60			Trialpit Complete at 3.600m

Remarks: Pit terminated at 3.6m at target depth. Slight groundwater seepage at 1.5 m.

Stability: Stable.

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TrialPit No
TP25
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524538.00 - 319897.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 3.20m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown slightly sandy CLAY.
			0.35			Light brown fine grained SAND.
0.50	ES					
			0.65			Light brown very thinly bedded silty fine grained SAND.
						Very silty below 1.6m and slightly wet.
			2.30			Grey mottled brown silty fine grained SAND, with occasional rotten plant material.
			3.20			Trialpit Complete at 3.200m

Remarks: Pit terminated at 3.2m due to side collapse from 0.4m. Groundwater not encountered.

Stability: Side collapse from 0.4m.

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TrialPit No
TP26
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524606.00 - 319868.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 2.30m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown slightly sandy CLAY.
			0.35			
0.50	D					Stiff brown slightly sandy CLAY.
			0.80			Light brown very silty fine grained SAND. Locally slightly wet.
						Land drain encountered at 0.9m.
			1.40			
1.50		HVP=18				Soft light brown very sandy SILT. Slightly wet.
			2.10			Grey mottled orange brown silty fine grained SAND. Slightly wet.
			2.30			Trialpit Complete at 2.300m

Remarks: Pit terminated at 3.2m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP27
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524679.00 - 319849.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.50m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown slightly sandy CLAY.
			0.35			Stiff grey mottled brown closely fissured CLAY.
0.70	ES		0.65			Light brown to brown clayey silty fine grained SAND.
						No clay below 1.2m.
			2.00			Grey mottled brown slightly silty fine grained SAND. Locally very silty. Occasionally slightly wet.
2.40	B					*Very silty and slightly wet below 2.8m.*
			3.50			Trialpit Complete at 3.500m

Remarks: Pit terminated at 3.5m due to side collapse from surface. Groundwater not encountered.

Stability: Side collapse from surface.

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TrialPit No
TP28
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524360.00 - 319898.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 4.00m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					MADE GROUND: Brown very gravelly SAND, with low cobble content and occasional cobble-sized pockets of sandy clay. Gravel of brick, limestone and chert. Cobbles of brick. Occasional plastic.
			0.40			MADE GROUND: Stiff grey slightly sandy CLAY.
			0.65			MADE GROUND: Brown very gravelly SAND, with low cobble content and occasional cobble-sized pockets of sandy clay. Gravel of brick, limestone and chert. Cobbles of brick. Occasional plastic.
			0.80			Light brown silty fine to medium grained SAND.
0.90	D					*Slightly clayey from 0.8 to 1.0m.*
			1.60			Very soft greyish brown clayey sandy SILT. Occasionally slightly wet.
1.80		HVP=20				
						Slight groundwater ingress at 2.5m. and brief groundwater ingress at 3.0m.
			2.60			Very soft grey clayey SILT, with occasional rotten plant material.
2.80		HVP=20				
						Brief groundwater ingress at 3.0m.
			4.00			Trialpit Complete at 4.000m

Remarks: Pit terminated at 4.0m at maximum reach of the excavator. Slight groundwater ingress at 2.5m and brief groundwater ingress at 3.0m.

Stability: Minor side collapse from 1.6 to 2.5m.

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TrialPit No
TP29
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524431.00 - 319867.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.40m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown very clayey SAND.
			0.35			Firm grey mottled orange brown sandy CLAY.
0.70	ES					
			1.35			Soft brown clayey SILT. Locally slightly sandy.
1.50 1.50	D	HVP=22				
			1.80			Brown mottled grey silty fine grained SAND.
			2.10			Grey slightly silty fine grained SAND.
			2.70			Very soft grey clayey SILT, with occasional rotten plant material.
3.00		HVP=19				
			3.40			Trialpit Complete at 3.400m

Remarks: Pit terminated at 3.4m due to side collapse from 0.8m. Groundwater not encountered.

Stability: Side collapse from 0.8m.

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TrialPit No
TP30
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524505.00 - 319834.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 3.80m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown very clayey SAND.
			0.35			
0.50	ES					Firm light brown mottled orange brown sandy CLAY.
			1.20			
						Light brown very thinly bedded slightly silty fine grained SAND.
			2.20			
						Grey slightly silty fine grained SAND. Slightly wet.
			3.80			
						Trialpit Complete at 3.800m

Remarks: Pit terminated at 3.8m due to developing side instability at 2.2m. Groundwater not encountered.

Stability: Developing side instability at 2.2m. Side collapse from surface during backfilling.

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TrialPit No
TP31
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524582.00 - 319798.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.40m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown CLAY.
			0.30			Stiff brown closely fissured CLAY.
1.00 1.00	D	HVP=110				
			1.35			Very soft brown slightly clayey sandy SILT.
1.50		HVP=17				
			1.90			Light brown slightly silty fine grained SAND.
			2.50			Light grey slightly silty fine SAND, with rare rotten plant material. Slightly wet.
			3.40			Trialpit Complete at 3.400m

Remarks: Pit terminated at 3.4m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP32
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524507.00 - 319769.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.80m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown slightly sandy CLAY.
			0.30			
0.40	ES					Stiff grey and brown slightly sandy CLAY.
			0.50			Firm orangish brown sandy CLAY. Locally clayey sand.
			0.70			Firm light brown slightly sandy thickly bedded CLAY.
			1.00			Very soft light brown sandy SILT. Locally silty fine grained sand, with occasional rotten plant material. Slightly wet.
1.50		HVP=18				
1.70	B					
			2.20			Grey very silty fine grained SAND. Locally soft sandy silt. Slightly wet.
			3.80			Trialpit Complete at 3.800m

1
2
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Remarks: Pit terminated at 3.8m at maximum reach of excavator. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP33A
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524433.00 - 319814.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 2.00m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown sandy SILT.
			0.35			Light brown silty fine grained SAND.
0.60	ES					*Orange mottling from 0.9 to 1.2m.*
			1.20			Light brown thickly bedded slightly silty fine grained SAND. Locally very silty. Slightly wet.
			2.00			Trialpit Complete at 2.000m

Remarks: Pit terminated at 2.0m due to side slumping below 1.3m. Slight groundwater seepage at 2.0m. TP33B excavated adjacent to TP33A for soakaway test.

Stability: Side slumping below 1.3m.

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TrialPit No
TP33B
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524433.00 - 319814.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 0.95m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown sandy SILT.
			0.30			Light brown mottled orangish brown silty fine grained SAND.
			0.95			Trialpit Complete at 0.950m

Remarks: Pit terminated at 0.95m at target depth for infiltration test. Groundwater not encountered.

Stability: Stable.

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TrialPit No
Stockpile Pit A
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524339.00 - 320034.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: 1.40m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	B					MADE GROUND: Brown slightly clayey very gravelly SAND with low cobble content. Gravel of chert, limestone and brick with cobbles of limestone. Occasional plastic.
			0.50			MADE GROUND: Firm to stiff greyish brown slightly gravelly sandy CLAY. Gravel of fine to coarse, angular limestone and brick. Occasional dark brown pockets of clay and rotting organic material. Rare wood fragments.
0.80	B					
0.80	ES					
			1.40			Trialpit Complete at 1.400m

Remarks: Trial pit excavated into stockpile, completed at 1.4m.

Stability:

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TrialPit No
Stockpile Pit B
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524328.00 - 319904.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 1.80m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						MADE GROUND: Brown very gravelly SAND. Gravel of fine to coarse, angular to rounded limestone, chert and brick.
			0.25			MADE GROUND: Firm brown slightly sandy to sandy slightly gravelly CLAY with low cobble content content. Gravel of fine to coarse, angular to rounded limestone, chert, brick and rare macadam and slag. Cobbles of limestone, concrete and whole bricks. Occasional plastic.
1.50	B					
			1.80			Trialpit Complete at 1.800m

Remarks: Trial pit excavated into stockpile, completed at 1.8m.

Stability:

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Borehole No.
CP01
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524401E - 320189N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 20/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.40			TOPSOIL: Brown clayey sandy SILT.
		1.00	D					Soft brown silty CLAY.
		1.20 - 1.65	D					
		1.20	SPT	N=2 (0,0/0,1,0,1)				
		2.10	D		2.10			
		2.20 - 2.65	D					Very soft brownish grey silty CLAY.
		2.20	SPT	N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.20 - 3.65	D					
		3.20	SPT	N=2 (0,0/0,1,0,1)				
		4.20 - 4.65	D					
		4.20	SPT	N=2 (0,1/0,1,0,1)				
		5.00	D		4.80			Brown clayey silty fine-grained SAND. Saturated.
								Groundwater strike at 5.0 m. Rose to 3.1 m after 20 mins.
		5.60 - 6.05	D					
		5.60	SPT	N=6 (1,1/1,2,1,2)				
		7.10 - 7.45	D					
		7.10	SPT	N=17 (2,3/4,4,4,5)				
		8.65 - 9.10	D					
		8.65	SPT	N=23 (3,4/5,5,6,7)				
		10.20 - 10.65	D					
		10.20	SPT	N=24 (2,4/5,6,5,8)				
		11.00	D		11.00			Brown sandy GRAVEL. Gravel is fine to coarse angular of chert.
		11.70 - 12.15	C					
		11.70	SPT	N=24 (4,5/5,6,5,8)	12.10			Stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		12.50	D					
		13.30 - 13.75	D					
		13.30	SPT	N=38 (4,6/8,9,10,11)				
		14.85 - 15.30	D					
		Type		Results				

Remarks
Borehole terminated at 19.8 m due to refusal. Groundwater strike at 5.0 m. Monitoring well installed as detailed above.

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Borehole No.
CP01
Sheet 2 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524401E - 320189N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 20/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		14.85	SPT	N=47 (5,6/11,10,11,15)				Stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		16.40 - 16.78	D					
		16.40	SPT	N=50 (7,8/50 for 228mm)				
		17.50	D		17.50			Very stiff greyish brown slightly sandy CLAY.
		18.00 - 18.30	D					
		18.00	SPT	50 (25 for 148mm/50 for 161mm)				
		19.55 - 19.80	D					
		19.55	SPT	50 (25 for 121mm/50 for 127mm)	19.80			End of Borehole at 19.800m
		Type		Results				

Remarks
Borehole terminated at 19.8 m due to refusal. Groundwater strike at 5.0 m. Monitoring well installed as detailed above.

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Borehole No.
CP02
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524527E - 320139N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 23/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.20	D		0.40			TOPSOIL: Brown very silty SAND.
		1.00	D					Very soft brown / greyish brown silty CLAY, with frequent gravel sized pockets of pseudo-fibrous peat.
		1.20 - 1.65	D					
		1.20	SPT	N=2 (0,0/1,0,0,1)				
		2.00	D		2.20			
		2.20 - 2.65	U					Very soft brownish grey silty CLAY, with occasional to frequent gravel-sized pockets of peat and vegetative matter.
		3.00	D					
		3.20 - 3.65	D					
		3.20	SPT	N=1 (0,0/0,0,0,1)				
		3.60 - 4.20	B					
		4.20 - 4.65	D					
		4.20	SPT	N=1 (0,0/0,0,0,1)				
		5.00	D					*Slightly sandy and peat less frequent below 5.0 m.*
		5.55 - 6.00	B					
		5.55 - 6.00	U					*U100 attempted - no recovery.*
		6.50	D					
		7.05 - 7.50	D					
		7.05	SPT	N=2 (0,0/0,0,1,1)				
		8.00	D		7.80			Soft greyish brown / brownish grey slightly sandy silty CLAY, with frequent vegetative matter.
		8.55 - 9.00	U					
		9.00 - 9.15	D					*Very stiff black with brown pockets clayey pseudo-fibrous PEAT present from 8.9 to 9.05 m.*
		9.50	D		9.20			Greyish brown clayey (becoming less clayey with depth) very sandy GRAVEL. Gravel is fine to coarse angular of chert and limestone. Wet.
		10.05 - 10.50	B					*Groundwater strike at 9.2 m, rose to 1.9 m after 20 mins.*
		10.05	SPT	N=9 (1,1/2,2,2,3)				
		11.00	D					
		11.55 - 12.00	C		11.80			
		11.55	SPT	N=16 (2,4/4,3,4,5)				Very stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		12.00	D					
		13.05 - 13.50	D					
		13.05	SPT	N=29 (3,4/5,7,8,9)				
		14.50	SPT	N=39 (4,5/7,8,11,13)				
		14.60 - 15.05	D					
		Depth (m)	Type	Results				

Remarks
Borehole terminated at 19.73 m due to refusal. Groundwater strike at 9.2 m. Monitoring well installed as detailed above.

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Borehole No.
CP02
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524527E - 320139N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 23/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		16.10 - 16.53	D					Very stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		16.10	SPT	N=50 (5,8/50 for 281mm)				
		17.40	D		17.40			
		17.65 - 18.00	D					Very stiff grey slightly sandy CLAY.
		17.65	SPT	50 (10,13/50 for 202mm)				
		19.45 - 19.73	D		19.73			
		19.45	SPT	50 (25 for 135mm/50 for 155mm)				End of Borehole at 19.730m
			Type	Results				

Remarks
Borehole terminated at 19.73 m due to refusal. Groundwater strike at 9.2 m. Monitoring well installed as detailed above.

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Borehole No.
CP03
Sheet 1 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524608E - 320082N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 22/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.30	D					TOPSOIL: Brown clayey sandy SILT.
		0.50 - 1.20	B		0.50			Soft brown silty CLAY. Slightly wet.
		1.00	D					
		1.20	D					
		1.20	SPT	N=0 (0,0/0,0,0,0)				
					1.70			Very soft grey/dark grey silty CLAY.
		2.50	D					
		2.50 - 3.50	B					
		2.50	SPT	N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.50	D					
		3.50	SPT	N=1 (0,0/0,1,0,0)				*Frequent vegetative matter encountered below ~3.5 m.*
		4.50	D					
		4.50	SPT	N=1 (0,0/0,0,1,0)				
		5.60	D					
		6.00	D					
		6.00	SPT	N=1 (0,0/1,0,0,0)				
		7.50	D					
		7.50	SPT	N=0 (0,0/0,0,0,0)				
		8.00 - 9.00	B					
		8.50	D					
		9.00	D					
		9.00	SPT	N=14 (0,0/1,3,4,6)	9.30			Brown slightly sandy GRAVEL. Gravel is fine to coarse angular of chert.
		9.30 - 10.00	B					*Groundwater strike at 9.4 m, rose to 3.1 m after 20 mins.*
		10.30	D					
		10.60	C					
		10.60	SPT	N=21 (2,3/3,4,6,8)				
		12.00	SPT	N=20 (3,4/4,5,5,6)	12.10			Very stiff greyish brown slightly gravelly CLAY. Gravel is fine angular to subrounded of chalk.
		12.50	D					
		13.00 - 14.00	B					
		13.50	D					
		14.00	D					
		14.00	SPT	N=36 (4,6/8,8,9,11)				
			Type	Results				

Remarks
Borehole terminated at 20.37 m due to refusal. Groundwater strike at 9.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP03
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524608E - 320082N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 22/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.50	D					Very stiff greyish brown slightly gravelly CLAY. Gravel is fine angular to subrounded of chalk.
		15.50	SPT	N=31 (3,4/4,8,9,10)				
		16.00 - 17.00	B					
		16.50	D					
		17.00	D					
		17.00	SPT	N=42 (4,5/8,10,10,14)				
					17.80			Very stiff brown occasionally slightly sandy CLAY.
		18.50	D					
		18.50	SPT	50 (25 for 125mm/50 for 120mm)				
		19.00 - 20.00	B					
		19.50	D					
		20.00	D					
		20.00	SPT	50 (11,13/50 for 175mm)	20.37			End of Borehole at 20.370m
			Type	Results				

Remarks
Borehole terminated at 20.37 m due to refusal. Groundwater strike at 9.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP04
Sheet 1 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524727E - 320023N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 21/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.00			TOPSOIL: Brown silty sandy CLAY.
		0.80	D		0.50			Brown silty fine-grained SAND. *Very little recovery*
		1.20	D					
		1.20	SPT	N=1 (0,1/0,0,1,0)				
					2.00			Very soft brownish grey silty CLAY with frequent gravel-sized pockets of fibrous peat.
		2.50	D					
		2.50 - 3.50	B					
		2.50	SPT	N=1 (0,0/0,0,0,1)				
	▽	3.00	D					
		3.50	D					
		3.50	SPT	N=1 (0,0/0,1,0,0)				
		4.50	U					
		5.00 - 6.00	B					
		5.50	D					
		6.00	D					
		6.00	SPT	N=0 (0,0/0,0,0,0)				
		7.40	D					*Thin band of stiff dark brown / black clayey pseudo-fibrous PEAT encountered at 7.5 m.*
		7.50	U					
	▽	8.40 - 9.00	B		8.40			Brown very sandy GRAVEL. Gravel is fine to coarse angular of chert. Slightly wet. *Groundwater strike at 8.4 m, rose to 3.2 m after 20 mins.*
		8.80	D					
		9.00	C					
		9.00	SPT	N=10 (1,2/2,3,2,3)				
		10.90	C					
		10.90	SPT	N=17 (1,2/2,3,6,6)				
					12.00			Very stiff greyish brown slightly gravelly CLAY. Gravel is fine angular to subrounded of chalk.
		12.50	D					
		12.50	SPT	N=28 (3,3/4,7,8,9)				
		13.00 - 14.00	B					
		13.50	D					
		14.00	D					
		14.00	SPT	N=22 (11,9/5,4,6,7)				
			Type	Results				

Remarks
Borehole terminated at 20.37 m due to refusal. Groundwater strike at 8.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP04
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524727E - 320023N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 21/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.50	D					Very stiff greyish brown slightly gravelly CLAY. Gravel is fine angular to subrounded of chalk.
		15.50	SPT	N=29 (3,6/6,6,8,9)				
		16.00 - 16.90	B					
		16.50	D					
		17.00	D		16.90			
		17.00	SPT	50 (12,13/50 for 200mm)				Very stiff brown CLAY.
		17.50 - 18.50	B					
		18.00	D					
		18.50	D					
		18.50	SPT	N=50 (8,9/50 for 245mm)				
		20.00	D					
		20.00	SPT	50 (10,10/50 for 225mm)	20.37			End of Borehole at 20.370m
		Type		Results				

Remarks
Borehole terminated at 20.37 m due to refusal. Groundwater strike at 8.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP05
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524677E - 319906N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 19/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30			TOPSOIL: Brown slightly sandy CLAY.
		0.50 - 1.20	B					Brown silty fine-grained SAND (with occasional clayey bands).
		0.80	D					
		1.20	D					
		1.20 - 2.50	B					
		1.20	SPT	N=2 (0,0/0,1,0,1)				
		2.00	D					
		2.50	D					
		2.50	SPT	N=0 (0,0/0,0,0,0)				
		3.50	D		3.50			Greyish brown / brown silty fine-grained SAND.
		3.50	SPT	N=5 (0,1/1,2,1,1)				
		4.50	D					
		4.50	SPT	N=3 (1,0/1,1,0,1)				
		5.00 - 6.00	B					
		5.50	D					
		6.00	D					*Groundwater strike at 5.8 m, rose to 5.5 m after 20 mins.*
		6.00	SPT	N=2 (0,0/0,0,1,1)	6.10			Very soft brownish grey silty CLAY, with frequent gravel-sized pockets of peat.
		6.50 - 7.50	B					
		7.00	D					
		7.50	D					
		7.50	SPT	N=3 (0,0/1,1,0,1)				
		9.20	D					
		9.20	SPT	N=6 (1,0/1,1,2,2)	9.40			Very soft grey silty CLAY.
		9.40 - 10.80	B					
		10.00	D					
		11.00	D		10.80			Brown very gravelly SAND. Gravel is fine to coarse angular to subrounded of chert. Saturated.
		11.00 - 12.10	B					*Groundwater strike at 10.8 m, rose to 4.9 m after 20 mins.*
		11.00	SPT	N=18 (3,3/4,5,4,5)				
		11.50	D		12.10			Very stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of chalk.
		12.50	D					
		12.50	SPT	N=21 (3,3/4,5,6,6)				
		13.00 - 14.00	B					
		13.50	D					
		14.00	D					
		14.00	SPT	N=36 (3,4/7,7,10,12)				
			Type	Results				

Remarks
Borehole terminated at 20.27 m due to refusal. Groundwater strikes at 5.8 m and 10.8 m. Monitoring well installed as above.

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Borehole No.
CP05
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524677E - 319906N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 19/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.50	D					Very stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of chalk.
		15.50	SPT	N=40 (4,7/7,9,10,14)				
		16.50	D					
		17.00	D					
		17.00	SPT	50 (25 for 115mm/50 for 50mm)	17.10			Very stiff greyish brown slightly sandy CLAY.
		17.50 - 18.50	B					
		18.00	D					
		18.50	D					
		18.50	SPT	50 (25 for 115mm/50 for 145mm)				
		20.00	D					
		20.00	SPT	50 (25 for 115mm/50 for 150mm)	20.27			End of Borehole at 20.270m
		Type		Results				

Remarks
Borehole terminated at 20.27 m due to refusal. Groundwater strikes at 5.8 m and 10.8 m. Monitoring well installed as above.

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Borehole No.
CP06
Sheet 1 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524677E - 319964N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 14/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.00 - 0.40	B					TOPSOIL: Brown slightly sandy CLAY.
		0.30	D		0.40			
		0.50 - 1.20	B					Soft brown slightly sandy silty CLAY.
		1.00	D					
		1.20	D					
		1.20	SPT	N=0 (0,0/0,0,0,0)				
		1.70 - 2.50	B		1.70			Very soft brownish grey silty CLAY, with frequent dark brown vegetative matter.
		2.00	D					
		2.50	D					
		2.50	SPT	N=0 (0,0/0,0,0,0)				
		3.50	D					
		3.50 - 4.50	B					
		3.50	SPT	N=1 (0,0/0,0,0,1)				
		4.00	D					
		4.50	D					
		4.50	SPT	N=2 (0,0/0,0,1,1)				
		6.00	D					
		6.00	SPT	N=0 (0,0/0,0,0,0)				
		8.00	D					
		8.00	SPT	N=9 (0,0/0,4,3,2)	8.20			Brown gravelly fine to medium-grained SAND, progressing to sandy GRAVEL. Gravel is fine to coarse angular to subrounded of chert. Occasionally slightly wet.
		8.50 - 9.50	B					*Groundwater strike at 8.5 m, rose to 3.6 m after 20 mins.*
		9.00	D					
		9.50	C					
		9.50	SPT	N=20 (3,4/4,5,5,6)				
		11.00	C					
		11.00	SPT	N=6 (1,2/2,1,2,1)				
		12.00	D					
		12.50	C					
		12.50	SPT	N=16 (1,2/3,3,4,6)				
		13.50	U		13.10			Very stiff brownish grey slightly gravelly CLAY. Gravel is fine angular to rounded of chalk and limestone.
		14.00 - 15.00	B					
		14.50	D					
		15.00	D					
		Depth (m)	Type	Results				

Remarks
Borehole terminated at 19.79 m due to refusal. Groundwater strike at 8.5 m. Monitoring well installed as detailed above.

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Borehole No.
CP06
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524677E - 319964N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 14/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.00	SPT	N=43 (5,5/6,10,12,15)				Very stiff brownish grey slightly gravelly CLAY. Gravel is fine angular to rounded of chalk and limestone.
		16.50	D					
		16.50	SPT	N=50 (5,8/50 for 275mm)				
		17.50 - 18.00	B		17.50			Very stiff brownish grey slightly sandy CLAY.
		17.80	D					
		18.00	D					
		18.00	SPT	50 (25 for 145mm/50 for 120mm)				
		19.00	D					
		19.50	D					
		19.50	SPT	50 (11,13/50 for 140mm)	19.79			End of Borehole at 19.790m
			Type	Results				

Remarks
Borehole terminated at 19.79 m due to refusal. Groundwater strike at 8.5 m. Monitoring well installed as detailed above.

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Borehole No.
CP07
Sheet 1 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524470E - 320013N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 19/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.20	D		0.30			TOPSOIL: Brown very clayey SAND.
								Brown silty fine to medium-grained SAND.
		1.00	D					
		1.20 - 1.65	D		1.20			
		1.20 - 1.80	B					Very soft brown slightly gravelly silty CLAY. Gravel is fine to coarse angular of chert.
		1.20	SPT	N=2 (0,1/0,1,0,1)				
		2.00	D					
		2.20 - 2.65	D		2.30			
		2.20 - 2.80	B					Very soft brownish grey / brown silty CLAY with frequent gravel-sized pockets of black fibrous peat and vegetative fragments. Slightly wet.
		2.20	SPT	N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.20 - 3.65	D					
		3.20	SPT	N=1 (0,0/0,0,0,1)				
		4.00	D					
		4.20 - 4.65	D					
		4.20	SPT	N=2 (0,0/0,1,0,1)				
		4.50 - 5.00	B					
		5.20	D		5.20			
		5.55 - 6.00	D					Brownish grey very silty fine-grained SAND.
		5.55	SPT	N=1 (0,0/0,0,0,1)	5.70			
								Very soft brownish grey / brown silty CLAY with frequent gravel-sized pockets of black fibrous peat and vegetative fragments.
		6.50	D					
		7.15 - 7.60	D					
		7.15	SPT	N=2 (0,1/0,1,0,1)				
		7.50 - 7.80	B					*Thin peat band from 7.5 to 7.7 m.*
		8.50	D		8.50			
		8.70 - 9.15	C					Brown sandy fine to coarse GRAVEL. Gravel is fine to coarse angular to subrounded of chert.
		8.70	SPT	N=9 (1,1/2,2,2,3)				*Groundwater strike at 8.5 m, rose to 5.3 m after 20 mins.*
		9.50	D					
		10.25 - 10.70	B					
		10.25	SPT	N=12 (1,2/3,3,3,3)				
		11.00	D					
		11.80 - 12.25	D		11.90			
		11.80	SPT	N=29 (4,5/5,7,8,9)				Very stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of chalk.
		12.00 - 12.50	B					
		13.30 - 13.75	D					
		13.30	SPT	N=32 (3,5/5,9,9,9)				
		14.00	D					
		14.85 - 15.30	D					
		Type		Results				

Remarks
Borehole terminated at 20.0 m due to refusal. Groundwater strike at 8.5 m. Monitoring well installed as above.

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Borehole No.
CP07
Sheet 2 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524470E - 320013N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 19/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		14.85	SPT	N=47 (6,8/9,10,13,15)				Very stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of chalk.
		16.35 - 16.62	D		16.50			
		16.35	SPT	50 (8,12/50 for 165mm)				Very stiff greyish brown slightly sandy CLAY.
		18.05 - 18.31	D					
		18.05	SPT	50 (25 for 134mm/50 for 131mm)				
		19.75 - 19.92	D					
		19.75	SPT	50 (25 for 80mm/50 for 90mm)	20.00			End of Borehole at 20.000m
			Type	Results				

Remarks
Borehole terminated at 20.0 m due to refusal. Groundwater strike at 8.5 m. Monitoring well installed as above.

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Borehole No.
CP08
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524353E - 320076N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 24/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.00 - 0.80	B					MADE GROUND: Brown very gravelly SAND. Gravel of fine to coarse, angular of brick, concrete, limestone, and chert.
					0.80			
		1.00	D					Soft brown silty CLAY.
		1.20 - 1.65	U					
		1.65 - 1.80	D					
		2.20 - 2.65	D					
		2.20	SPT	N=1 (0,0/0,0,0,1)	2.50			
		3.00	D					Very soft brownish grey silty CLAY, with occasional vegetative fragments.
		3.20 - 3.65	D					
		3.20	SPT	N=1 (0,0/0,0,0,1)				
		4.00	D					
		4.20 - 4.65	U					*Frequent gravel-sized pockets of dark brown amorphous peat below 4.0 m.*
		4.65 - 4.80	D					
		4.80 - 5.40	B					
		5.40	D		5.40			
		5.55 - 6.00	D					Brown silty fine to medium-grained SAND.
		5.55	SPT	N=12 (1,2/2,3,3,4)				*Groundwater strike at 5.4 m, rose to 4.3 m after 20 mins.*
		6.00 - 6.50	B					
		7.05 - 7.50	D					
		7.05	SPT	N=16 (2,3/4,4,4,4)				
		8.65 - 9.10	D					
		8.65	SPT	N=19 (1,4/3,5,5,6)				
		10.20 - 10.65	D					
		10.20	SPT	N=20 (2,3/5,5,4,6)				
		11.70	D		11.70			
		11.75 - 12.20	C					Brown gravelly fine to coarse-grained SAND. Gravel is fine to coarse angular of chert.
		11.75	SPT	N=18 (3,4/4,4,5,5)				
		13.00	D		13.00			
		13.20 - 13.65	D					Stiff greyish brown gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		13.20	SPT	N=30 (4,5/6,8,8,8)				
		14.70 - 15.15	D					
		Type		Results				

Remarks
Boreholes terminated at 19.66 m due to refusal. Groundwater strike at 5.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP08
Sheet 2 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524353E - 320076N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 24/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		14.70	SPT	N=32 (5,5/6,8,8,10)				Stiff greyish brown gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		16.15 - 16.58	D					
		16.15	SPT	N=50 (6,7/50 for 277mm)				
		17.20	D		17.10			Very stiff brownish grey slightly sandy CLAY.
		17.80 - 18.10	D					
		17.80	SPT	50 (25 for 140mm/50 for 154mm)				
		19.40 - 19.66	D		19.66			End of Borehole at 19.660m
		19.40	SPT	50 (23 for 118mm/50 for 143mm)				
			Type	Results				

Remarks
Boreholes terminated at 19.66 m due to refusal. Groundwater strike at 5.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP09
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524338E - 319949N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 04/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.00 - 0.30	B					MADE GROUND: Brown sandy gravelly CLAY. Gravel of fine to coarse, angular brick, chert and concrete.
		0.30	D		0.30			
		0.30 - 0.60	B					Grey and brown silty very clayey fine to medium-grained SAND.
		0.60	D		0.60			Firm brown sandy CLAY, locally very clayey fine-grained SAND.
		0.60 - 1.00	B					
		1.20 - 1.65	D					
		1.20 - 1.70	B					
		1.20	SPT	N=3 (1,1/0,1,1,1)	1.70			Very soft brownish grey silty CLAY.
		2.00	D					
		2.00 - 2.40	B					
		2.20 - 2.65	D		2.40			Very soft brownish grey / brown silty CLAY with occasional shells / shell fragments, and frequent gravel-sized pockets of black fibrous peat and vegetative matter.
		2.20	SPT	N=2 (0,0/0,1,0,1)				
		3.00	D					
		3.20 - 3.65	B					
		3.20 - 3.65	D					
		3.20	SPT	N=2 (0,1/0,1,0,1)				
		4.00	D					
		4.25 - 4.70	D					
		4.25	SPT	N=4 (0,1/1,1,1,1)				
		4.30 - 5.00	B					
		5.30	D		5.30			Brownish grey silty fine-grained SAND.
		5.85 - 6.20	D					
		5.85	SPT	N=13 (0,2/2,3,4,4)	6.00			Greyish brown silty fine-grained SAND.
		6.00 - 6.50	B					*Groundwater strike at 6.0 m, rose to 4.6 m after 20 mins.*
		7.00	D					
		7.40 - 7.85	D					
		7.40	SPT	N=19 (2,4/5,5,4,5)				
		8.50	D					
		9.00 - 9.45	D					
		9.00	SPT	N=25 (3,6/6,7,6,6)				*Blowing sands below 9.0 m.*
		10.00	D					
		10.55 - 11.00	D					
		10.55	SPT	N=19 (2,4/3,4,6,6)				
		11.50	D					
		12.05 - 12.50	D					
		12.05	SPT	N=17 (2,2/4,4,4,5)	12.40			Brown sandy GRAVEL. Gravel is fine to coarse angular to subrounded of chert. Slightly wet.
		12.50 - 13.00	B					
		13.20	D					
		13.55 - 14.00	B		13.40			Stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		13.55 - 14.00	D					*Unable to seal out water below 13.5 m. Slow boring (chop and shell) from 14 to 15 m.*
		13.55	SPT	N=37 (4,4/7,9,10,11)				
		14.50	D					
		Type		Results				

Remarks

Borehole terminated at 15.5 m due to blowing sands and water ingress. Groundwater strike at 6 m. Monitoring well installed as detailed above.

Eastwood
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Borehole No.
CP09
Sheet 2 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524338E - 319949N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 04/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.05 - 15.50	D					Stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		15.05	SPT	N=41 (7,6/9,9,11,12)	15.50			End of Borehole at 15.500m
			Type	Results				

16 17 18 19 20 21 22 23 24 25 26 27 28 29

Remarks

Borehole terminated at 15.5 m due to blowing sands and water ingress. Groundwater strike at 6 m. Monitoring well installed as detailed above.

Eastwood
CONSULTING ENGINEERS

Borehole No.
CP10
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524412E - 319882N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 08/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.20	D					TOPSOIL: Brown very clayey SAND.
		0.30 - 0.80	B		0.30			Very soft brownish grey / brown silty CLAY, with frequent gravel-sized pockets of vegetative fragments.
		1.20 - 1.65	D					
		1.20 - 1.70	B					
		1.20	SPT	N=2 (0,1/0,1,0,1)				
		2.00	D					
		2.20 - 2.65	U					
		2.65 - 2.80	D					
		3.20 - 3.65	D					
		3.20	SPT	N=2 (0,0/0,1,0,1)				
								Frequent gravel-sized pockets of fibrous peat encountered below 3.7 m.
		4.00	D					
		4.20 - 4.65	U					
	▽	4.65 - 4.80	D					
		5.50	D					
		5.80 - 6.25	D					
		5.80 - 6.30	B		6.00			
		5.80	SPT	N=1 (0,0/0,0,0,1)				Very soft brownish grey / brown silty CLAY.
		7.00	D					
		7.35 - 7.80	D					
		7.35	SPT	N=5 (1,1/1,1,1,2)				
		7.70 - 8.20	B		7.70			Brown fibrous PEAT.
					7.90			Very soft brownish grey / brown silty CLAY.
		8.50	D					
		8.85 - 9.30	U					
		9.50	D					
		9.80	D					
	▽	10.00	D		10.00			
		10.30 - 10.75	C					Brown slightly sandy GRAVEL. Gravel is fine to coarse angular to rounded of chert. Wet.
		10.30 - 10.80	B					*Groundwater strike at 10 m, rose to 4.5 m after 20 mins.*
		10.30	SPT	N=13 (2,2/3,3,3,4)				
		11.50	D		11.50			
		11.85 - 12.30	D					Stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk, chert and occasional shell fragments.
		11.85	SPT	N=27 (3,6/7,6,7,7)				
		12.50 - 13.00	B					
		13.35 - 13.80	U					
		13.80 - 13.95	D					
		14.90 - 15.35	D					
		Depth (m)	Type	Results				

Remarks
Borehole terminated at 19.91 m due to refusal. Groundwater strike at 10 m. Monitoring well installed as detailed above.

Eastwood
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Borehole No.
CP10
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524412E - 319882N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 08/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		14.90	SPT	N=37 (5,6/7,9,9,12)				Stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk, chert and occasional shell fragments.
		16.20	D		16.20			Very stiff greyish brown slightly sandy CLAY.
		16.45 - 16.90	U					
		16.95 - 17.10	D					
		17.50 - 18.00	B					
		18.05 - 18.39	D					
		18.05	SPT	50 (5,12/50 for 190mm)				
		19.60 - 19.91	D		19.91			
		19.60	SPT	50 (6,14/50 for 162mm)				End of Borehole at 19.910m
			Type	Results				

Remarks
Borehole terminated at 19.91 m due to refusal. Groundwater strike at 10 m. Monitoring well installed as detailed above.

Eastwood
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Borehole No.
CP11
Sheet 1 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524509E - 319838N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 13/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.00 - 0.40	B					TOPSOIL: Brown very clayey SAND.
		0.30	D		0.40			
		0.50 - 1.00	B					Brown / light brown silty fine-grained SAND.
		0.80	D					
		1.20	D					
		1.20	SPT	N=7 (1,2/1,2,2,2)				
		2.50	D					
		2.50 - 3.50	B					
		2.50	SPT	N=2 (1,0/1,0,1,0)				
		3.00	D					
		3.50	D		3.60			
		3.50	SPT	N=3 (1,0/1,1,0,1)				Brown silty fine-grained SAND.
		3.60 - 4.50	B					
		4.00	D					
		4.50	D					
		4.50	SPT	N=3 (0,0/0,1,1,1)				*More grey below 4.5 m.*
		5.00 - 6.00	B					
		5.50	D					
		6.00	D					
		6.00	SPT	N=3 (0,0/1,0,1,1)				
		6.80 - 7.50	B		6.80			Stiff brownish grey CLAY, with frequent gravel-sized inclusions of dark brown clay, fibrous peat and vegetative fragments, and occasional partings / pockets of fine-grained sand.
		7.00	D					
		7.50	D					
		7.50	SPT	N=8 (2,2/2,2,2,2)				
		8.60	D					
		9.40	D					
		9.40	SPT	N=17 (1,3/4,4,5,4)	9.50			Brown fine to medium-grained SAND. *Groundwater strike at 9.5 m. No rise in water level after 20 mins.*
		10.60	D		10.60			Very stiff grey slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		10.60	SPT	N=29 (4,5/6,6,8,9)				
		10.80	D					
		12.20	D					
		12.20	SPT	N=27 (4,4/5,6,8,8)				
		12.50	B					
		13.00	D					
		13.50	D					
		13.50	SPT	N=33 (2,4/5,8,10,10)				
		15.00	D					
			Type	Results				

Remarks
Borehole terminated at 20.22 m due to refusal. Groundwater strike at 9.5 m. Monitoring well installed as detailed above.

Eastwood
CONSULTING ENGINEERS

Borehole No.
CP11
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524509E - 319838N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 13/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		15.00	SPT	N=28 (3,4/4,6,8,10)				Very stiff grey slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		16.50	D					
		16.50	SPT	N=50 (5,8/50 for 250mm)				
		17.10 - 18.00	B		17.10			Very stiff greyish brown CLAY.
		18.20	D					
		18.50	D					
		18.50	SPT	50 (25 for 140mm/50 for 105mm)				
		20.00	D					
		20.00	SPT	50 (25 for 105mm/50 for 120mm)	20.22			End of Borehole at 20.220m
			Type	Results				

Remarks
Borehole terminated at 20.22 m due to refusal. Groundwater strike at 9.5 m. Monitoring well installed as detailed above.

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Borehole No.
CP12
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524626E - 319785N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 20/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								TOPSOIL: Brown slightly sandy CLAY.
		0.50 - 1.10	B		0.40			Stiff brown slightly sandy CLAY.
		0.80	D					
		1.20	D		1.10			Brown clayey silty fine to medium-grained SAND.
		1.20 - 2.50	B					
		1.20	SPT	N=2 (0,0/0,0,1,1)				
		2.00	D					
		2.50	D					
		2.50	SPT	N=0 (0,0/0,0,0,0)				
	▽	3.50	D					
	▽	3.50	SPT	N=5 (0,0/1,2,1,1)	3.60			Brown silty fine to medium-grained SAND.
	▽	3.60 - 4.50	B					
	▽	4.00	D					*Groundwater strike at 4.0 m, rose to 3.2 m after 20 mins.*
		4.50	D					
		4.50	SPT	N=2 (1,0/1,0,1,0)				
		6.00	D					
		6.00	SPT	N=4 (1,2/1,1,1,1)				
		7.50	D					
		7.50	SPT	N=3 (1,0/1,1,0,1)				
		9.00	D					
		9.00	SPT	N=13 (1,2/2,3,3,5)				
		9.50	D					
		9.50 - 10.50	D					
		10.80	D					
		10.80	SPT	N=16 (3,3/4,3,4,5)				
					11.80			Stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		12.50	D					
		12.50	SPT	N=21 (3,4/5,5,5,6)				
		13.00 - 14.00	B					
		13.50	D					
		14.00	D					
		14.00	SPT	N=24 (4,4/5,6,8)				
		Type		Results				

Remarks
Borehole terminated at 20.26 m due to refusal. Groundwater strike at 4.0 m. Monitoring well installed as detailed above.

Eastwood
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Borehole No.
CP12
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524626E - 319785N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 20/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.50	D					Stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		15.50	SPT	N=36 (5,8/8,9,9,10)				
		16.00 - 17.00	B					
		16.50	D					
		17.00	D					
		17.00	SPT	N=44 (6,8/9,11,11,13)				
					18.30			
		18.50	D					Very stiff greyish brown slightly sandy CLAY.
		18.50	SPT	50 (8,11/50 for 210mm)				
		19.00 - 20.00	B					
		19.50	D					
		20.00	D					
		20.00	SPT	N=50 (25 for 140mm/50 for 125mm)				
					20.26			End of Borehole at 20.260m
		Type		Results				

Remarks
Borehole terminated at 20.26 m due to refusal. Groundwater strike at 4.0 m. Monitoring well installed as detailed above.



Site entrance in south west from B1173



View north across 'Brownfield' area from site entrance, with stockpile in left of photo

Prepared	DN	**Checked**	AJK	**Date**	04/04/2022	**Photograph No**	1/2

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LINCS GATEWAY, SPALDING

ALCOR PROPERTIES LIMITED

SITE PHOTOGRAPHS



View south across ‘Brownfield’ area



View towards stockpile along northern edge of ‘Brownfield’ area

Prepared	DN	Checked	AJK	Date	04/04/2022	Photograph No	3/4

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LINCS GATEWAY, SPALDING

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SITE PHOTOGRAPHS



Cropped fields located adjacent to ‘Brownfield’ area



Drainage ditch located along southern boundary

Prepared	DN	Checked	AJK	Date	04/04/2022	Photograph No	5/6

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SITE PHOTOGRAPHS



View north east along south east boundary



View west across site from alternative eastern entrance off A16

Prepared	DN	**Checked**	AJK	**Date**	04/04/2022	**Photograph No**	7/8

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Drainage ditch crossing the site



Drainage ditch crossing the site

Prepared	DN	Checked	AJK	Date	04/04/2022	Photograph No	9/10

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View towards north west corner of agricultural fields



Public footpath along former Fen End Lane in west of site, and adjacent horse paddock

Prepared	DN	**Checked**	AJK	**Date**	04/04/2022	**Photograph No**	11/12

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SITE PHOTOGRAPHS

Appendix 4

PSL22/2989 & PSL22/3231

Calculation of Infiltration Rates

LABORATORY REPORT

4043

Contract Number: PSL22/2989

Report Date: 18 May 2022

Client's Reference: 46934

Client Name: Eastwood & Partners
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

For the attention of: Daniel Nowell

Contract Title: Lincs Gateway, Spalding

Date Received: 26/4/2022
Date Commenced: 26/4/2022
Date Completed: 18/05/2022

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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Checked and Approved Signatories:

A Watkins (Director)
R Berriman (Quality Manager)
S Royle (Laboratory Manager)

L Knight (Assistant Laboratory Manager)
S Eyre (Senior Technician)
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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP1			1.30		Brown sandy very silty CLAY.
TP12			1.50		Brown CLAY with some organic material.
TP15			1.30		Brown slightly sandy CLAY with some organic material.
TP19			1.40		Brown slightly sandy CLAY with some organic material.
TP21			1.70		Brown mottled grey organic CLAY.
TP26			1.50		Brown sandy very silty CLAY.
TP29			1.50		Brown sandy very silty CLAY.
TP31			1.00		Brown CLAY.

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP1			1.30		32			40	25	15	100	Intermediate Plasticity CI
TP12			1.50		69			81	34	47	100	Very High Plasticity CV
TP15			1.30		41			66	29	37	100	High Plasticity CH
TP19			1.40		38			51	28	23	100	High Plasticity CH
TP21			1.70		102			121	44	77	100	Extremely High Plasticity CE
TP26			1.50		31			37	21	16	100	Intermediate Plasticity CI
TP29			1.50		34			40	23	17	100	Intermediate Plasticity CI
TP31			1.00		33			76	31	45	100	Very High Plasticity CV

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

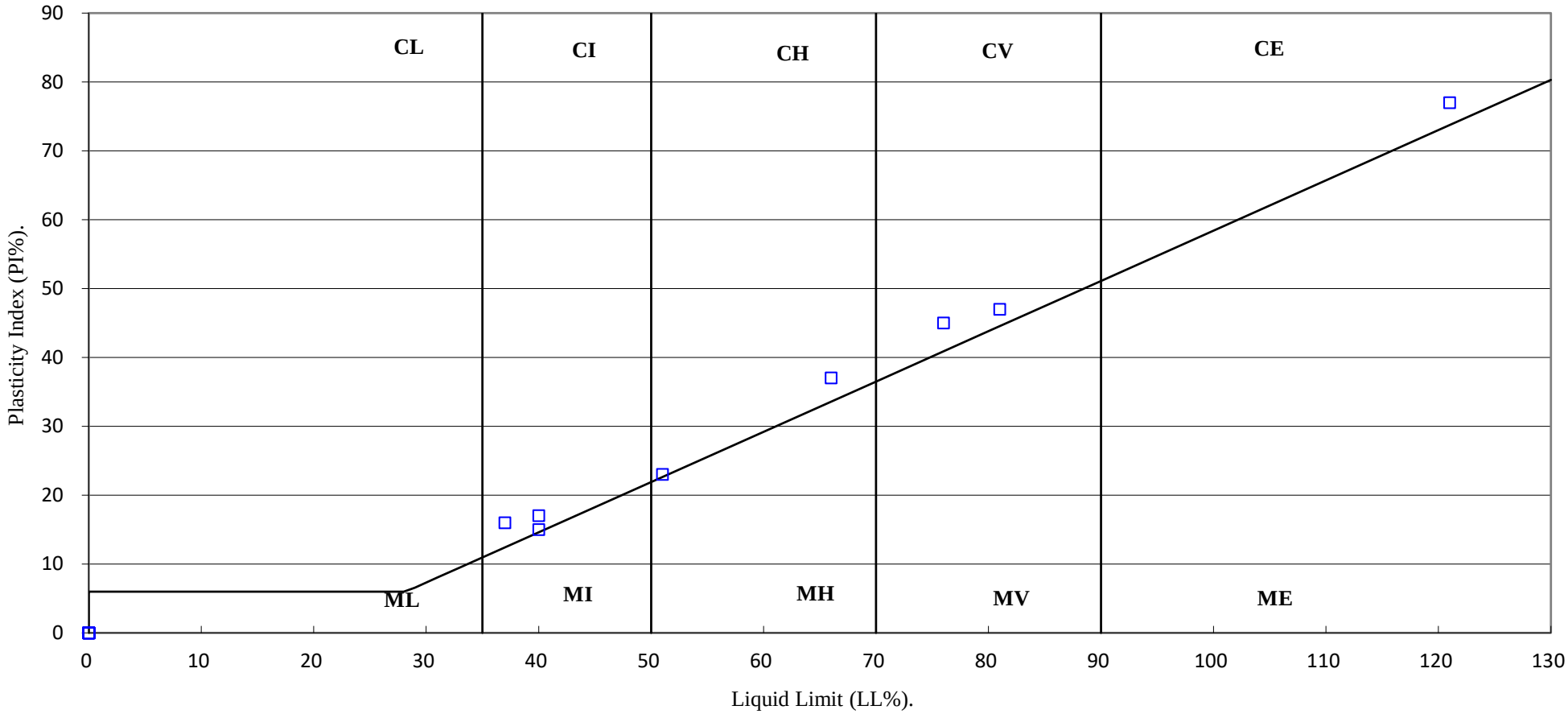
Contract No:

PSL22/2989

Client Ref:

46934

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	Lincs Gateway, Spalding	**Contract No:** PSL22/2989 **Client Ref:** 46934

LABORATORY REPORT

4043

Contract Number: PSL22/3231

Report Date: 30 May 2022

Client's Reference: 46934

Client Name: Eastwood & Partners
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

For the attention of: Daniel Nowell

Contract Title: Lincs Gateway, Spalding

Date Received: 5/5/2022
Date Commenced: 5/5/2022
Date Completed: 30/5/2022

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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A Watkins (Director)
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S Royle (Laboratory Manager)

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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP3		B	1.30		Brown very sandy clayey SILT
CP3		B	0.50	1.20	Brown sandy very silty CLAY
CP5		B	0.50	1.20	Brown very sandy slightly clayey SILT
CP7		B	1.20	1.80	Brown slightly sandy CLAY
CP9		B	0.00	0.30	Brown gravelly sandy CLAY
CP11		B	0.50	1.00	Brown clayey very sandy SILT
CP4		B	8.40	9.00	Brown very sandy slightly clayey GRAVEL.
CP5		B	1.20	2.50	Brown very sandy clayey SILT.
CP9		B	0.60	1.00	Brown slightly gravelly sandy CLAY.
CP10		B	10.30	10.80	Brown very sandy silty GRAVEL.
CP11		B	5.00	6.00	Brown mottled grey sandy CLAY.
CP12		B	3.60	4.50	Brown very silty SAND.
CP2		U	8.55	9.00	Very soft brown slightly sandy organic CLAY.
CP4		U	4.50		Soft dark grey peaty CLAY.
CP6		U	13.50	13.95	Very stiff brown slightly gravelly sandy CLAY.
CP8		U	1.20	1.65	Soft brown slightly sandy CLAY.
CP8		U	4.20	4.65	Soft brown slightly sandy organic CLAY.
CP10		U	2.20	2.65	Soft dark brown slightly sandy organic CLAY.
CP10		U	8.85	9.30	Soft brown slightly sandy CLAY with some organic material.

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
CP10		U	13.35	13.80	Very stiff brown slightly gravelly sandy CLAY.
CP10		U	16.45	16.90	Very stiff brown slightly gravelly sandy CLAY.
CP1		D	2.10		Brown sandy CLAY.
CP1		D	12.50		Grey slightly gravelly sandy CLAY.
CP2		D	1.00		Brown slightly gravelly organic CLAY.
CP2		D	3.00		Brown slightly sandy organic CLAY.
CP2		D	17.40		Grey sandy CLAY.
CP3		D	5.60		Dark brown peaty CLAY.
CP4		D	3.00		Brown mottled grey slightly sandy CLAY with some organic material.
CP5		D	7.00		Brown slightly sandy CLAY with some organic material.
CP5		D	16.50		Grey slightly gravelly sandy CLAY.
CP6		D	1.00		Brown sandy CLAY.
CP6		D	2.00		Brownish grey slightly sandy CLAY.
CP6		D	17.80		Grey sandy CLAY.
CP7		D	4.20		Grey organic CLAY.
CP8		D	3.00		Brown mottled grey slightly sandy CLAY.
CP8		D	17.20		Grey sandy CLAY.
CP9		D	2.00		Brown mottled dark grey CLAY with some organic material.
CP9		D	4.25	4.70	Brown mottled grey organic CLAY.

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
CP10		D	7.00		Grey organic CLAY.
CP10		D	7.70	8.20	Dark brown organic CLAY.
CP11		D	0.80		Brown sandy CLAY.
CP11		D	10.80		Brown slightly gravelly sandy CLAY.
CP12		D	19.50		Grey sandy CLAY.

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
CP2		U	8.55	9.00	60			109	41	68	100	Extremely High Plasticity CE
CP4		U	4.50	4.95	115			247	80	167	100	Extremely High Plasticity CE
CP6		U	13.50	13.95	15			51	24	27	95	High Plasticity CH
CP8		U	1.20	1.65	32			58	26	32	100	High Plasticity CH
CP8		U	4.20	4.65	93			127	45	82	100	Extremely High Plasticity CE
CP10		U	2.20	2.65	62			79	33	46	100	Very High Plasticity CV
CP10		U	8.85	9.30	52			61	27	34	100	High Plasticity CH
CP10		U	13.35	13.80	16			41	21	20	93	Intermediate Plasticity CI
CP10		U	16.45	16.90	16			43	22	21	97	Intermediate Plasticity CI
CP1		D	2.10		47			53	24	29	100	High Plasticity CH
CP1		D	12.50		19			37	18	19	96	Intermediate Plasticity CI
CP2		D	1.00		56			94	35	59	98	Extremely High Plasticity CE
CP2		D	3.00		74			99	36	63	100	Extremely High Plasticity CE
CP2		D	17.40		19			47	22	25	100	Intermediate Plasticity CI
CP3		D	5.60		120			189	65	124	100	Extremely High Plasticity CE
CP4		D	3.00		59			68	29	39	100	High Plasticity CH
CP5		D	7.00		61			82	33	49	100	Very High Plasticity CV
CP5		D	16.50		15			38	18	20	92	Intermediate Plasticity CI
CP6		D	1.00		9.7			53	23	30	100	High Plasticity CH

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

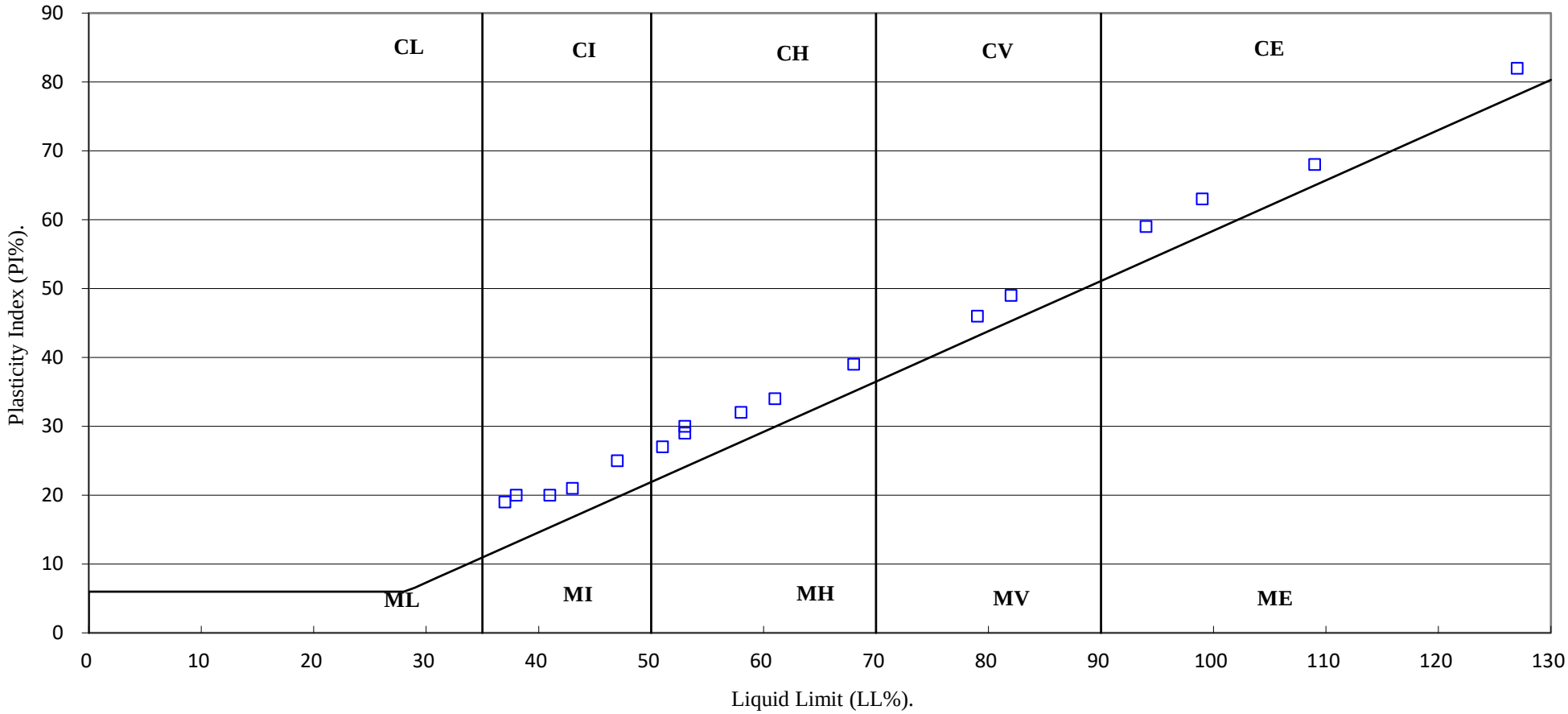
Contract No:

PSL22/3231

Client Ref:

46934

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:** PSL22/3231 **Client Ref:** 46934

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
CP6		D	2.00		16			65	27	38	100	High Plasticity CH
CP6		D	17.80		15			45	21	24	100	Intermediate Plasticity CI
CP7		D	4.20		84			152	54	98	100	Extremely High Plasticity CE
CP8		D	3.00		49			67	28	39	100	High Plasticity CH
CP8		D	17.20		20			49	23	26	100	Intermediate Plasticity CI
CP9		D	2.00		53			82	35	47	100	Very High Plasticity CV
CP9		D	4.25	4.70	80			154	56	98	100	Extremely High Plasticity CE
CP10		D	7.00		58			91	35	56	100	Extremely High Plasticity CE
CP10		D	7.70	8.20	94			189	65	124	100	Extremely High Plasticity CE
CP11		D	0.80		9.5			48	23	25	100	Intermediate Plasticity CI
CP11		D	10.80		8.3			45	22	23	98	Intermediate Plasticity CI
CP12		D	19.50		18			46	22	24	100	Intermediate Plasticity CI

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

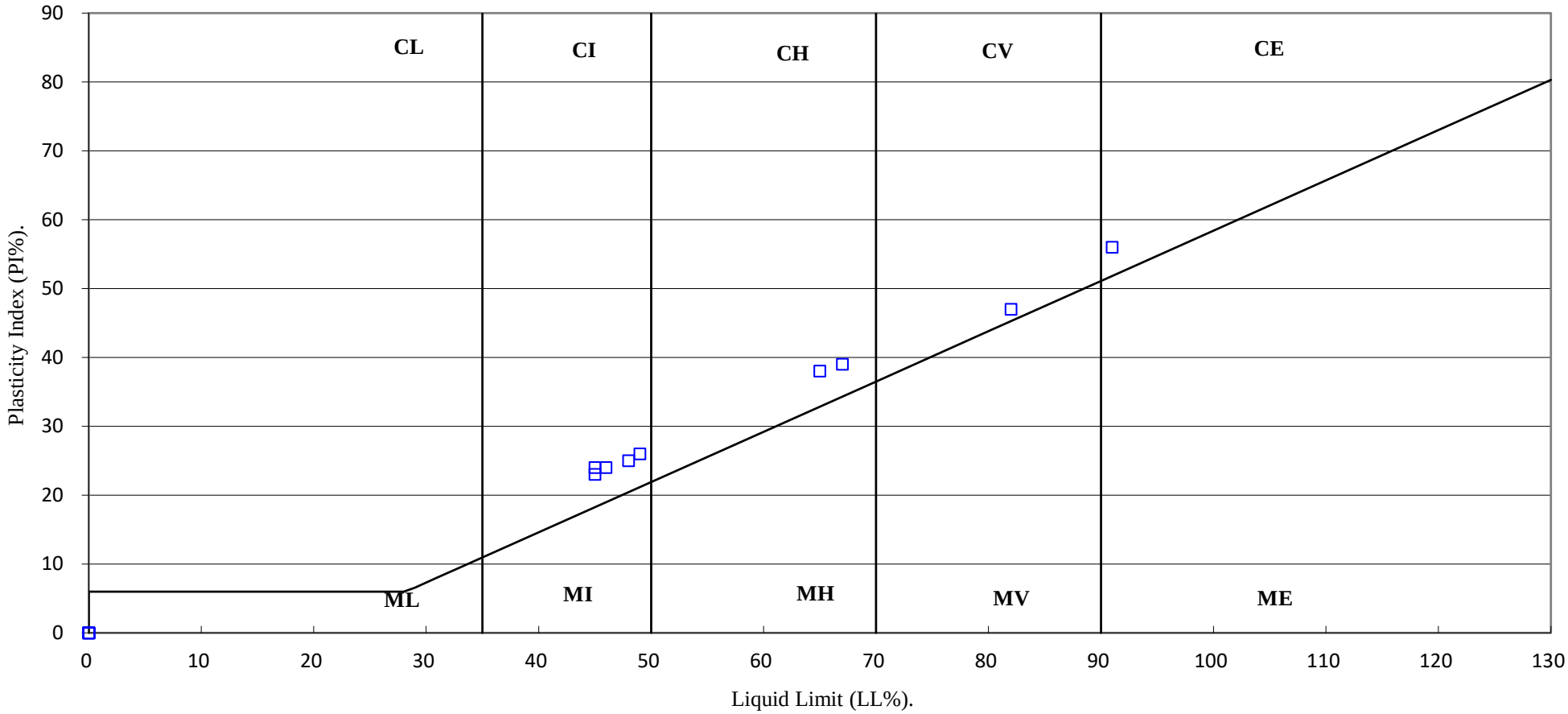
Contract No:

PSL22/3231

Client Ref:

46934

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:**
			PSL22/3231
			Client Ref:
			46934

PARTICLE SIZE DISTRIBUTION TEST

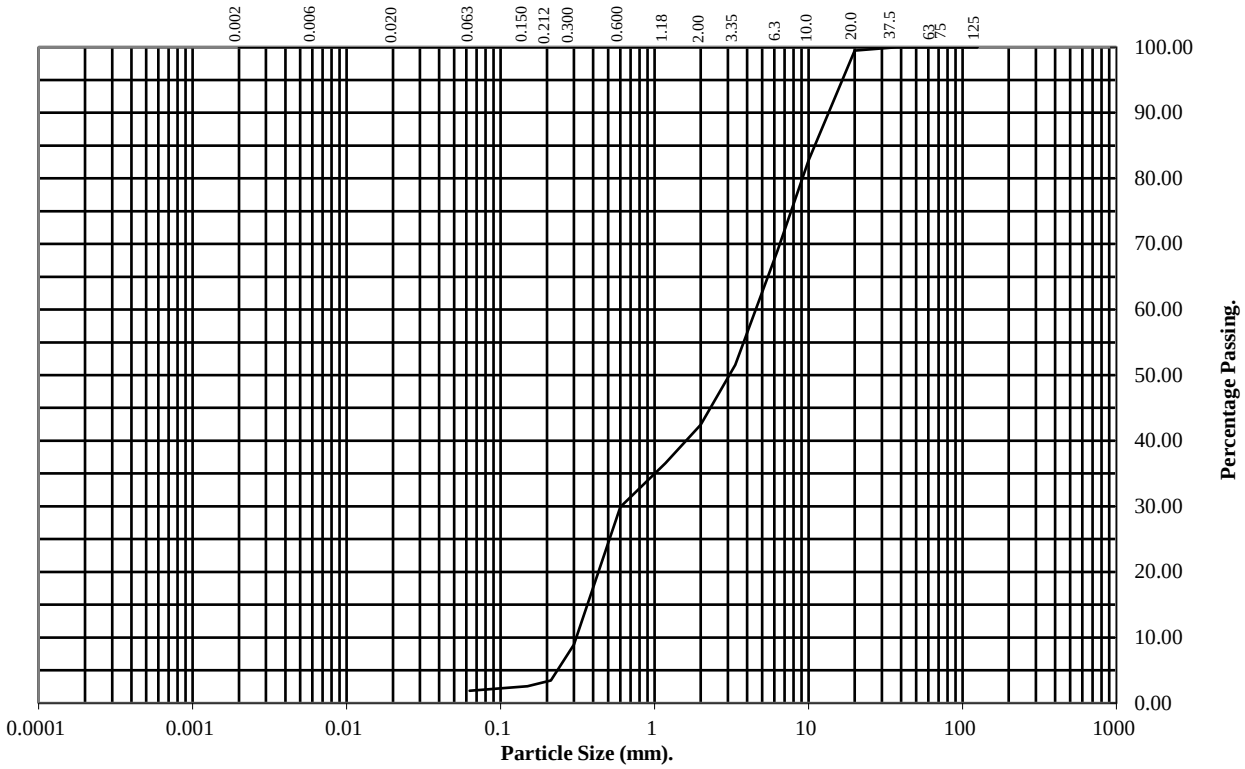
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **CP4** **Top Depth (m):** **8.40**

Sample Number: **Base Depth(m):** **9.00**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	83
6.3	69
3.35	52
2	42
1.18	37
0.6	30
0.3	9
0.212	3
0.15	3
0.063	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	58
Sand	40
Silt/Clay	2

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

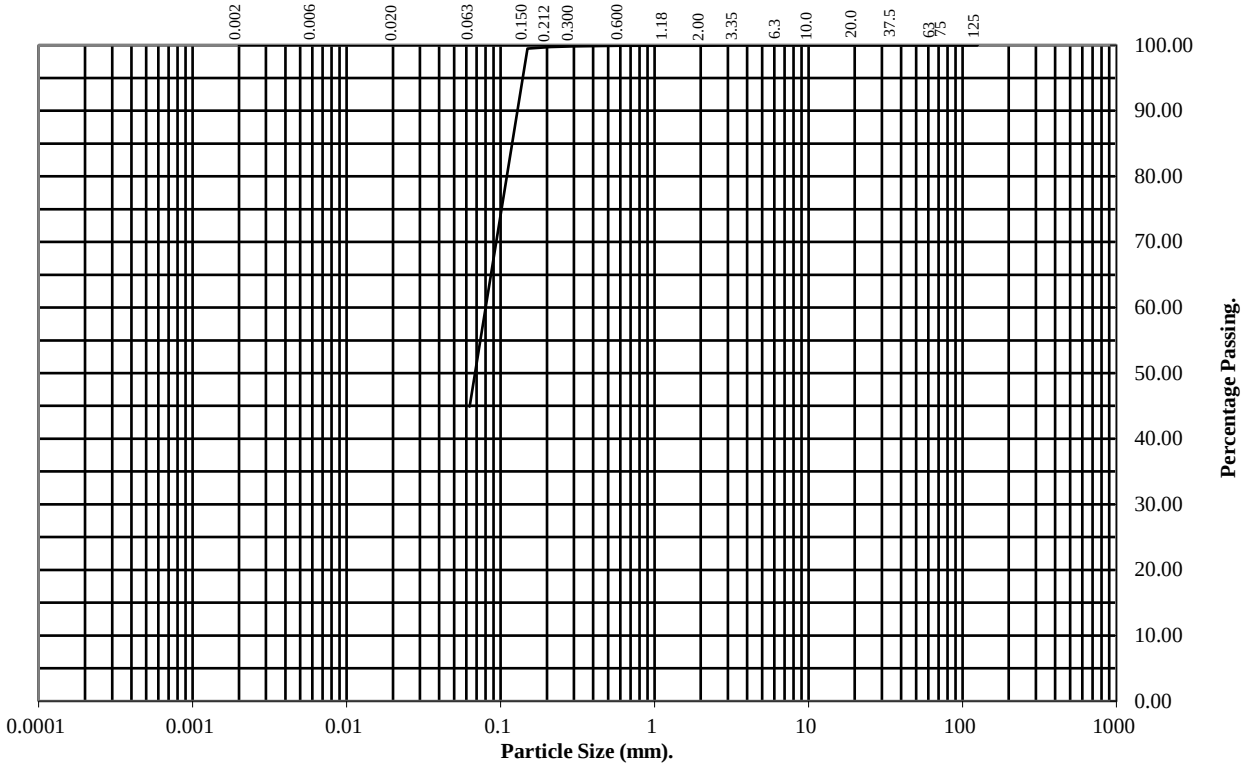
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **CP5** **Top Depth (m):** **1.20**

Sample Number: **Base Depth(m):** **2.50**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	100
0.15	99
0.063	45

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	55
Silt/Clay	45

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

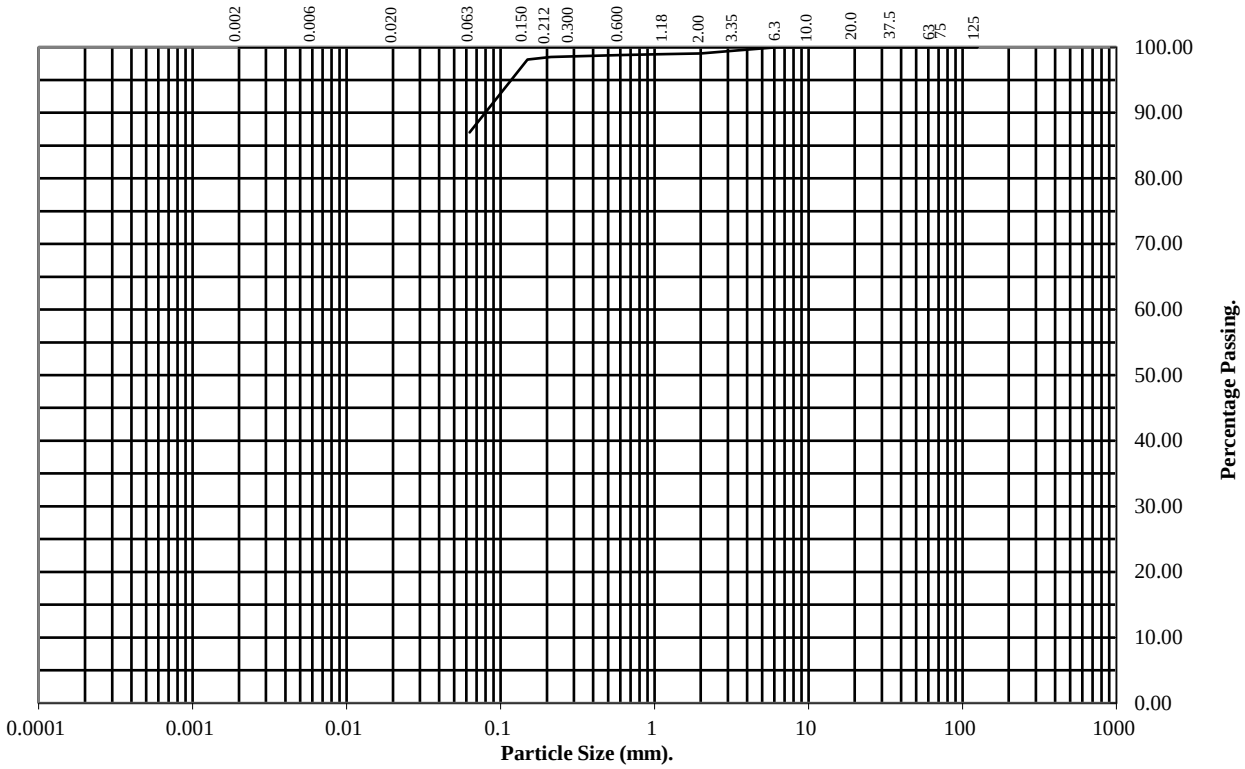
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **CP9** **Top Depth (m):** **0.60**

Sample Number: **Base Depth(m):** **1.00**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	99
2	99
1.18	99
0.6	99
0.3	99
0.212	99
0.15	98
0.063	87

Soil Fraction	Total Percentage
Cobbles	0
Gravel	1
Sand	12
Silt/Clay	87

Remarks:

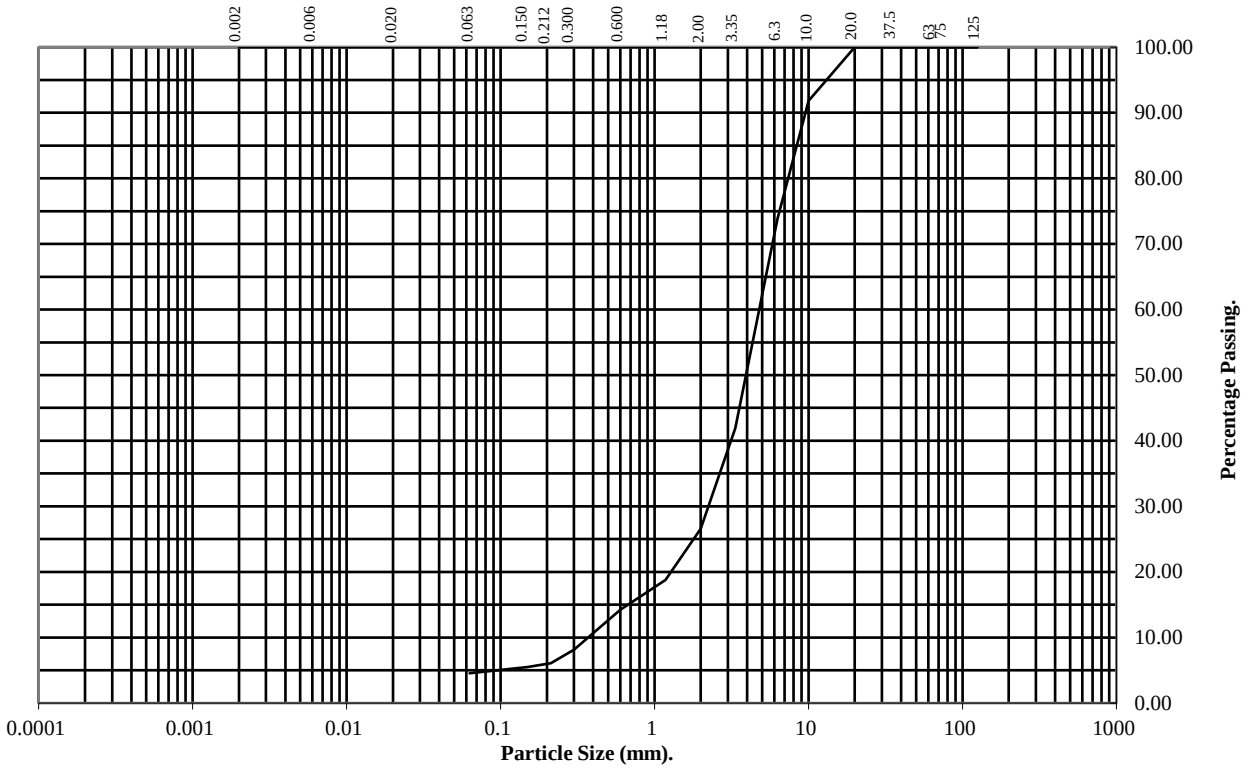
See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number:	**CP10**	**Top Depth (m):**	**10.30**
Sample Number:		**Base Depth(m):**	**10.80**
Sample Type:	**B**		



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	92
6.3	74
3.35	42
2	27
1.18	19
0.6	14
0.3	8
0.212	6
0.15	5
0.063	5

Soil Fraction	Total Percentage
Cobbles	0
Gravel	73
Sand	22
Silt/Clay	5

Remarks:

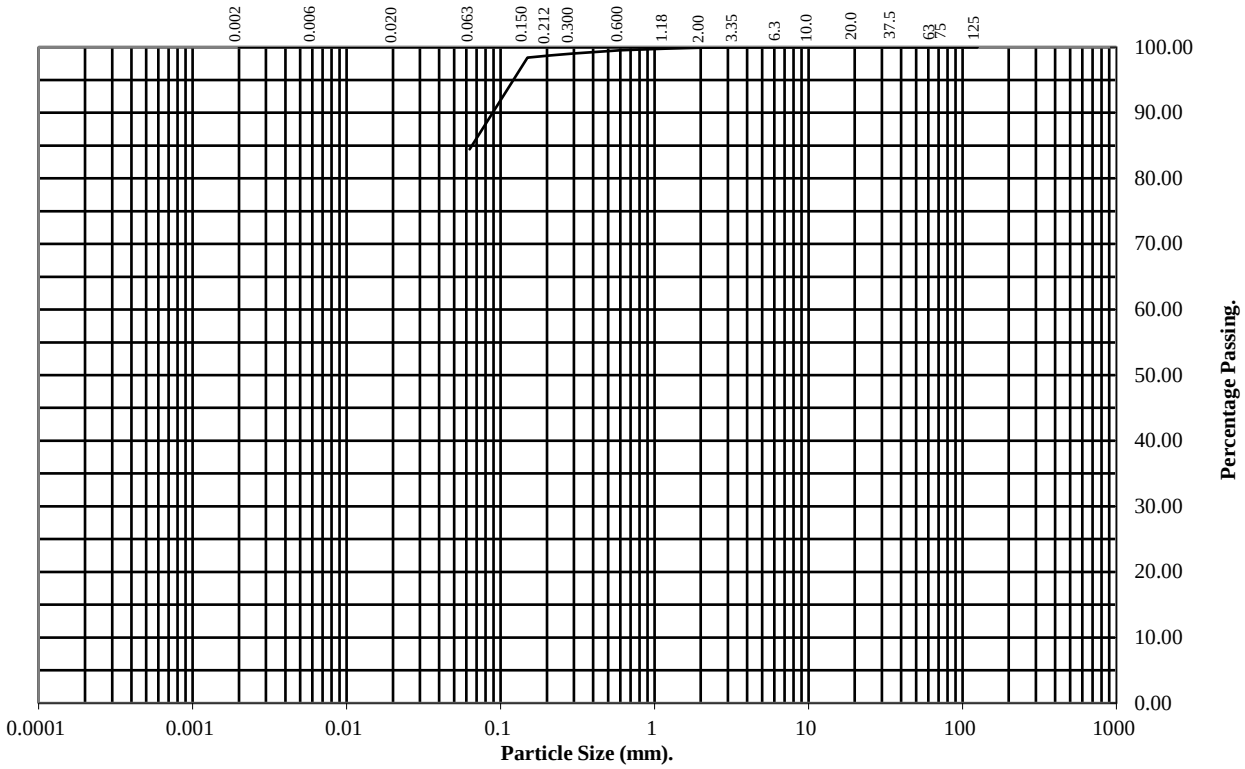
See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number:	**CP11**	**Top Depth (m):**	**5.00**
Sample Number:		**Base Depth(m):**	**6.00**
Sample Type:	**B**		



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	99
0.212	99
0.15	98
0.063	84

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	16
Silt/Clay	84

Remarks:

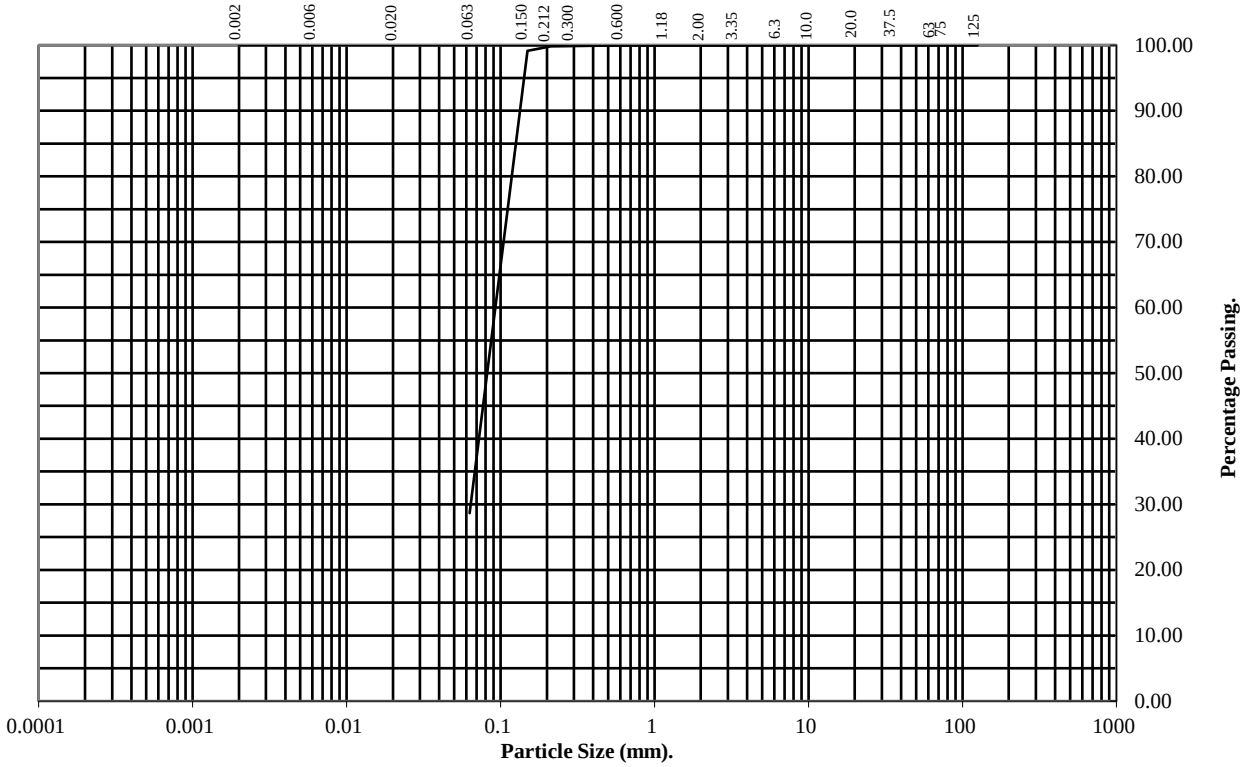
See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number:	**CP12**	**Top Depth (m):**	**3.60**
Sample Number:		**Base Depth(m):**	**4.50**
Sample Type:	**B**		



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	100
0.15	99
0.063	29

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	71
Silt/Clay	29

Remarks:

See Summary of Soil Descriptions

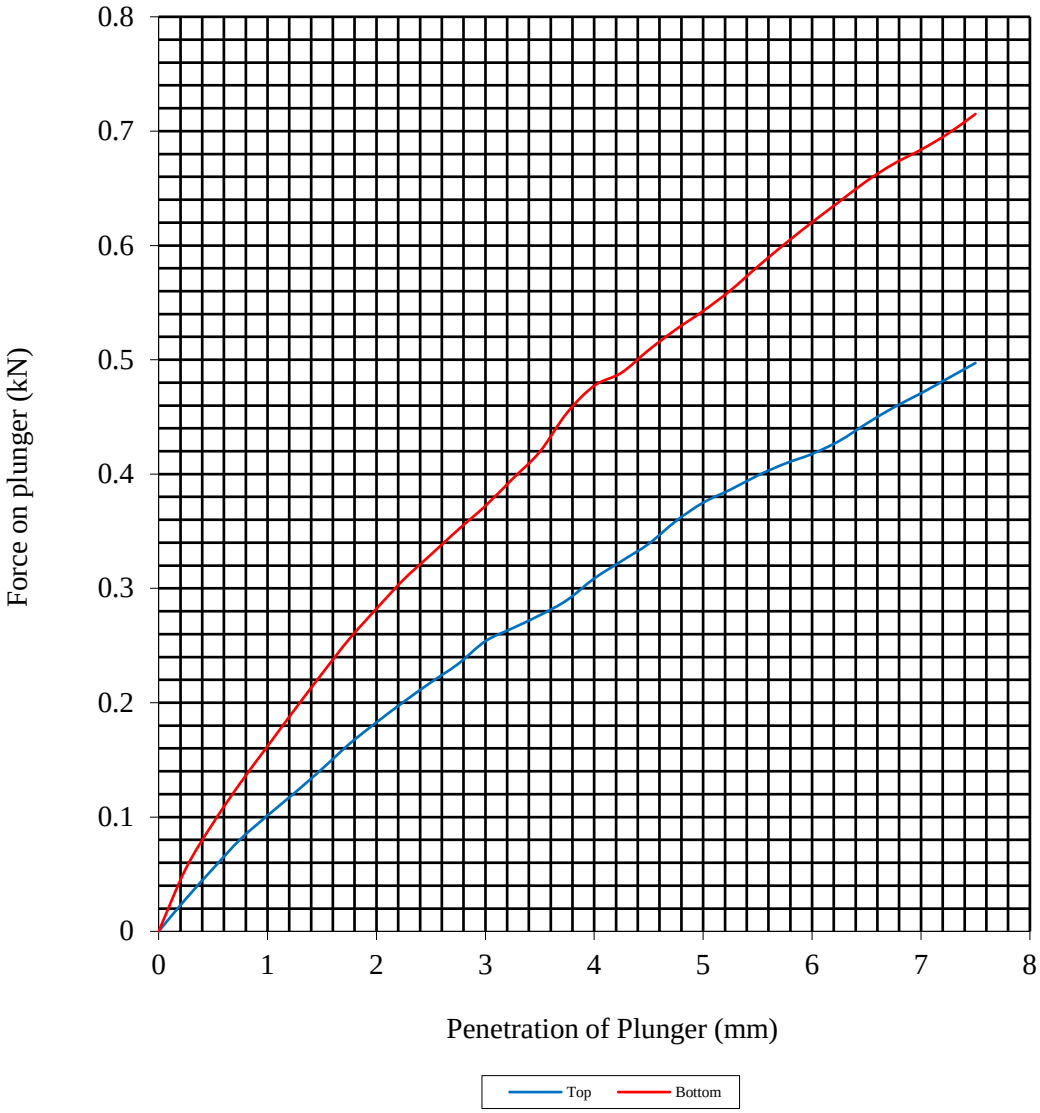
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: CP3 **Top Depth (m):** 0.50

Sample Number: **Base Depth (m):** 1.20

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	22	Surcharge Kg:	4.20	Sample Top	24	Sample Top	1.9
Bulk Density Mg/m3:	1.88	Soaking Time hrs	96	Sample Bottom	24	Sample Bottom	2.7
Dry Density Mg/m3:	1.54	Swelling mm:	0.22	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

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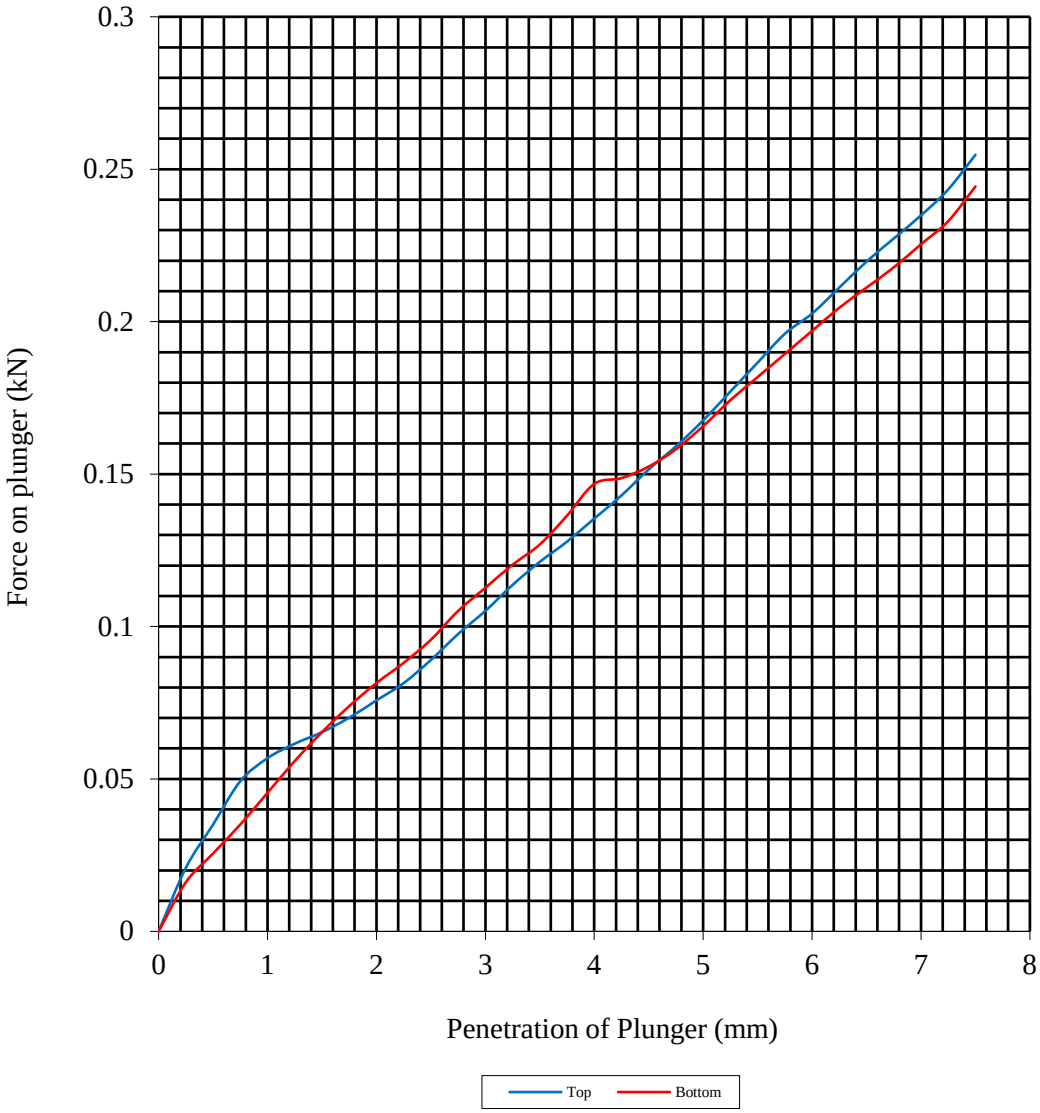
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: CP5 **Top Depth (m):** 0.50

Sample Number: **Base Depth (m):** 1.20

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	25	Surcharge Kg:	4.20	Sample Top	27	Sample Top	0.8
Bulk Density Mg/m3:	1.99	Soaking Time hrs	96	Sample Bottom	27	Sample Bottom	0.8
Dry Density Mg/m3:	1.59	Swelling mm:	0.46	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

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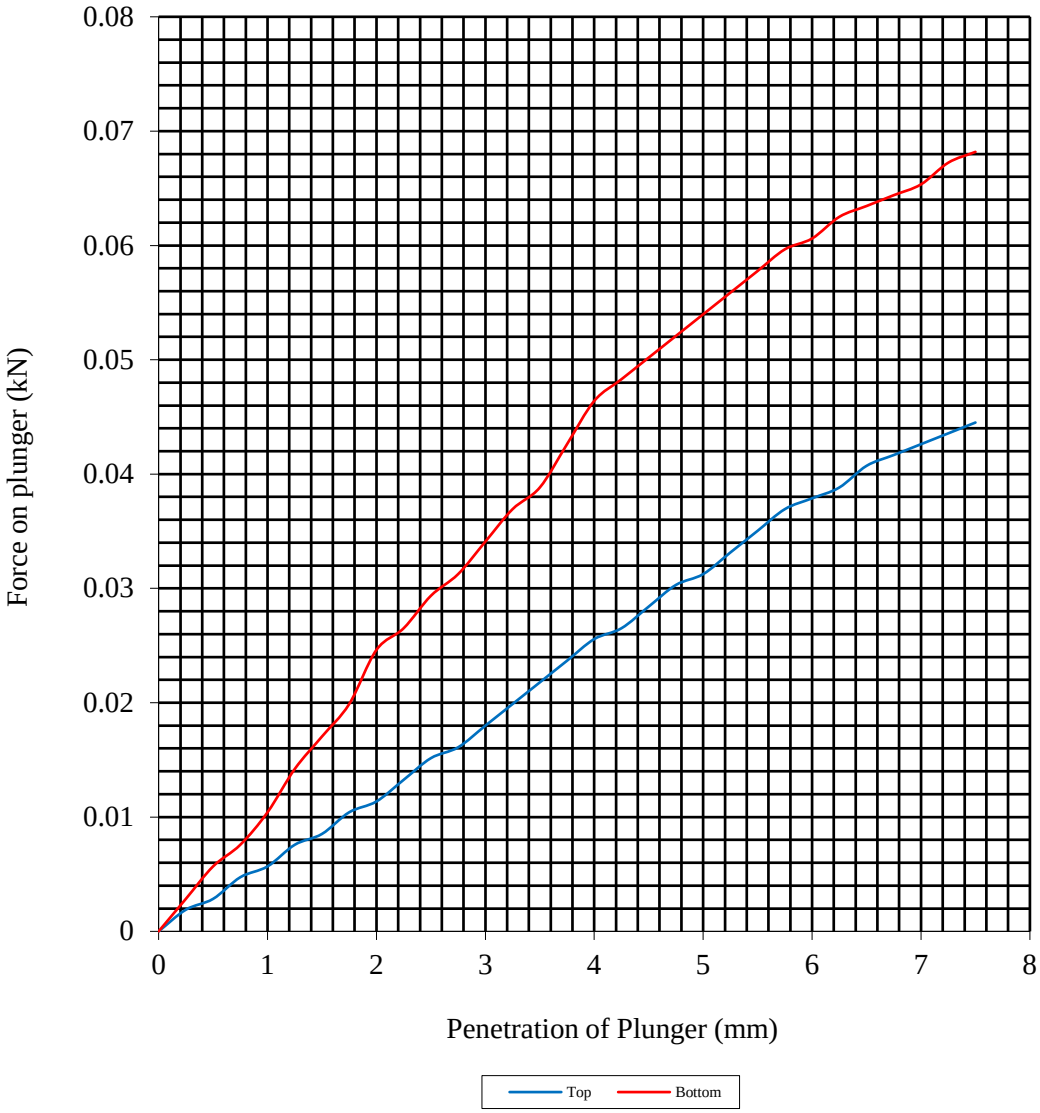
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: CP7 **Top Depth (m):** 1.20

Sample Number: **Base Depth (m):** 1.80

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	38	Surcharge Kg:	4.20	Sample Top	40	Sample Top	0.2
Bulk Density Mg/m3:	1.81	Soaking Time hrs	96	Sample Bottom	39	Sample Bottom	0.3
Dry Density Mg/m3:	1.31	Swelling mm:	0.18	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: PSL22/3231

Client Ref: 46934

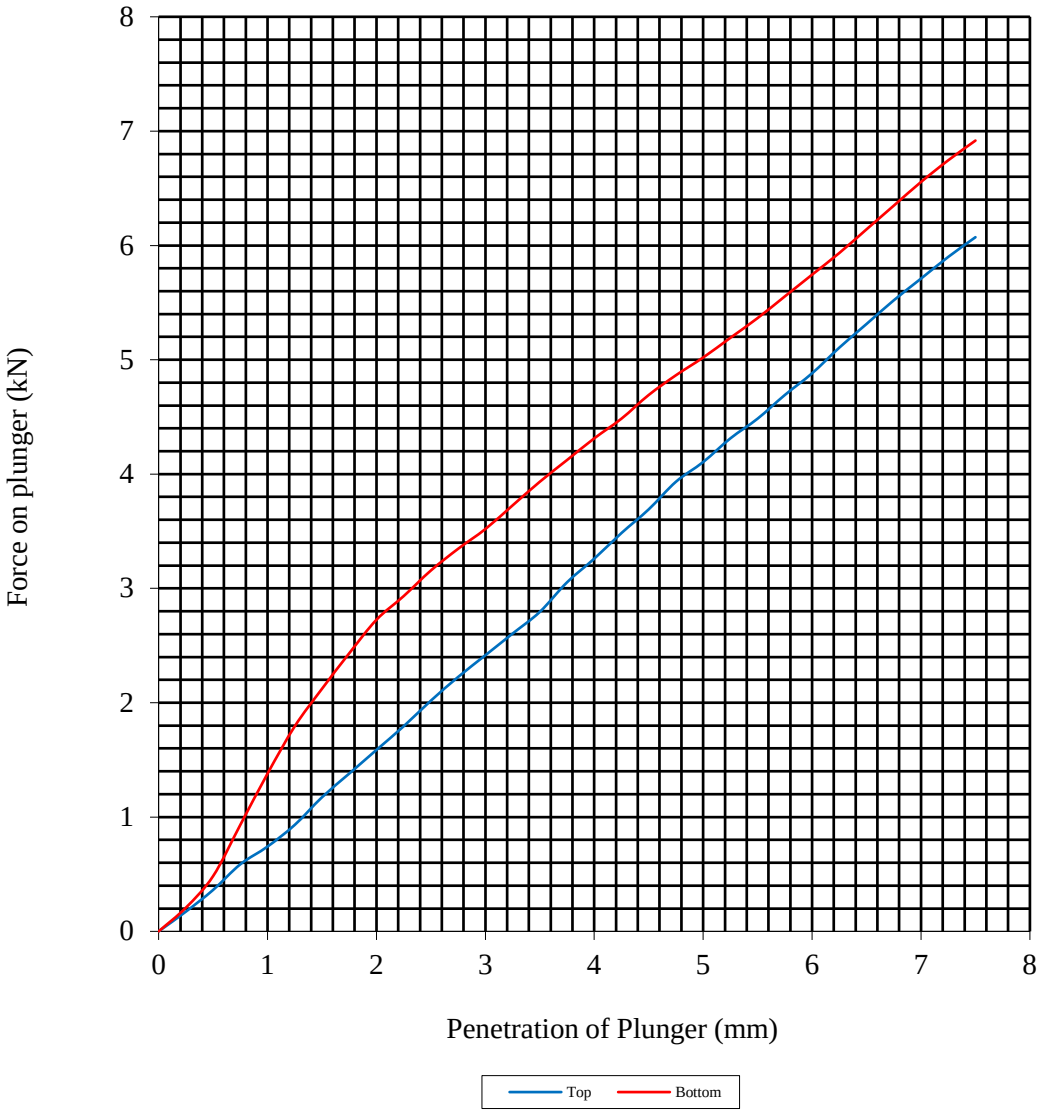
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: CP9 **Top Depth (m):** 0.00

Sample Number: **Base Depth (m):** 0.30

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	9.3	Surcharge Kg:	4.20	Sample Top	11	Sample Top	20.5
Bulk Density Mg/m3:	2.07	Soaking Time hrs	96	Sample Bottom	10	Sample Bottom	25.1
Dry Density Mg/m3:	1.89	Swelling mm:	0.11	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			8				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

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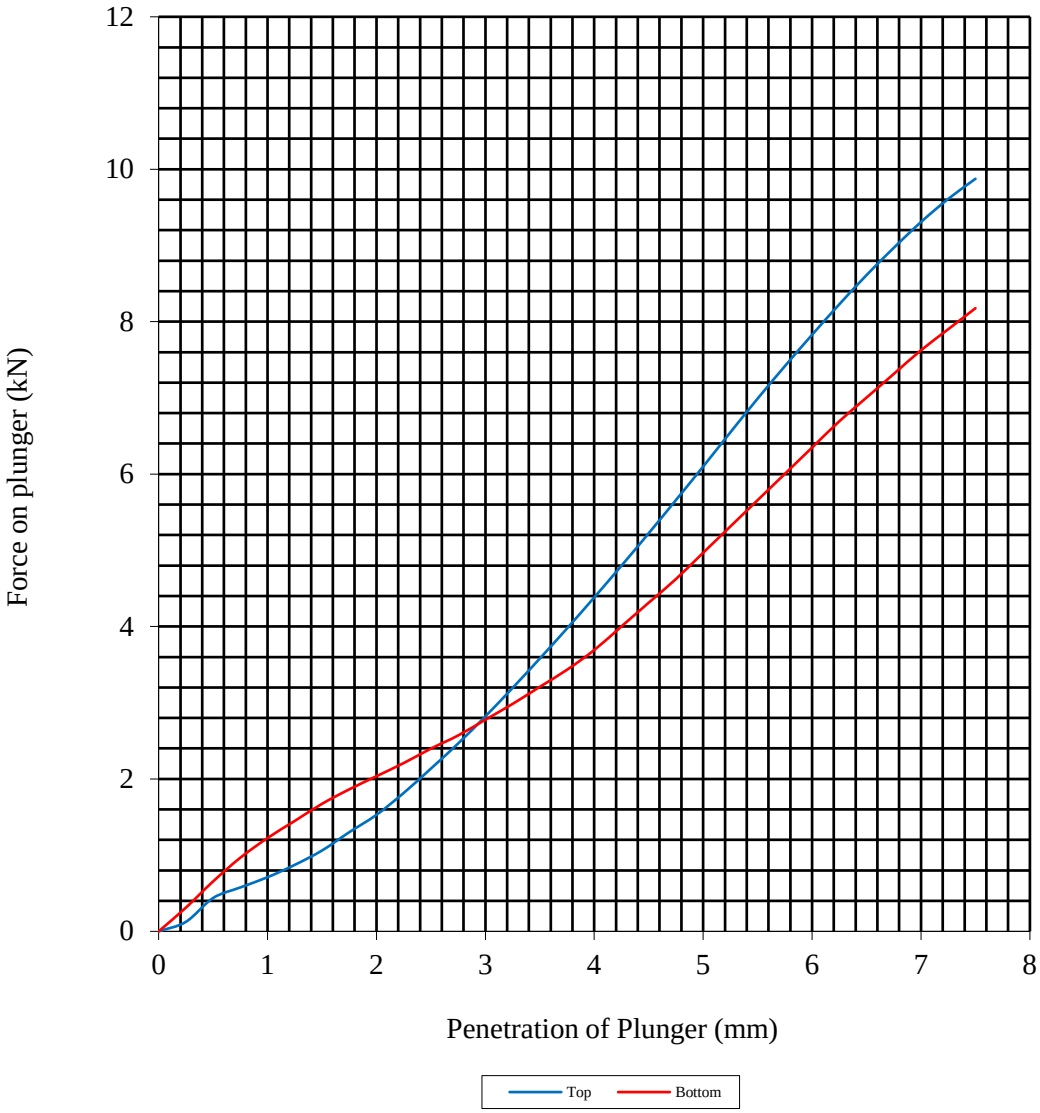
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: CP11 **Top Depth (m):** 0.50

Sample Number: **Base Depth (m):** 1.00

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	9.3	Surcharge Kg:	4.20	Sample Top	11	Sample Top	30.5
Bulk Density Mg/m3:	1.69	Soaking Time hrs	96	Sample Bottom	11	Sample Bottom	24.8
Dry Density Mg/m3:	1.55	Swelling mm:	1.84	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

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Lincs Gateway, Spalding

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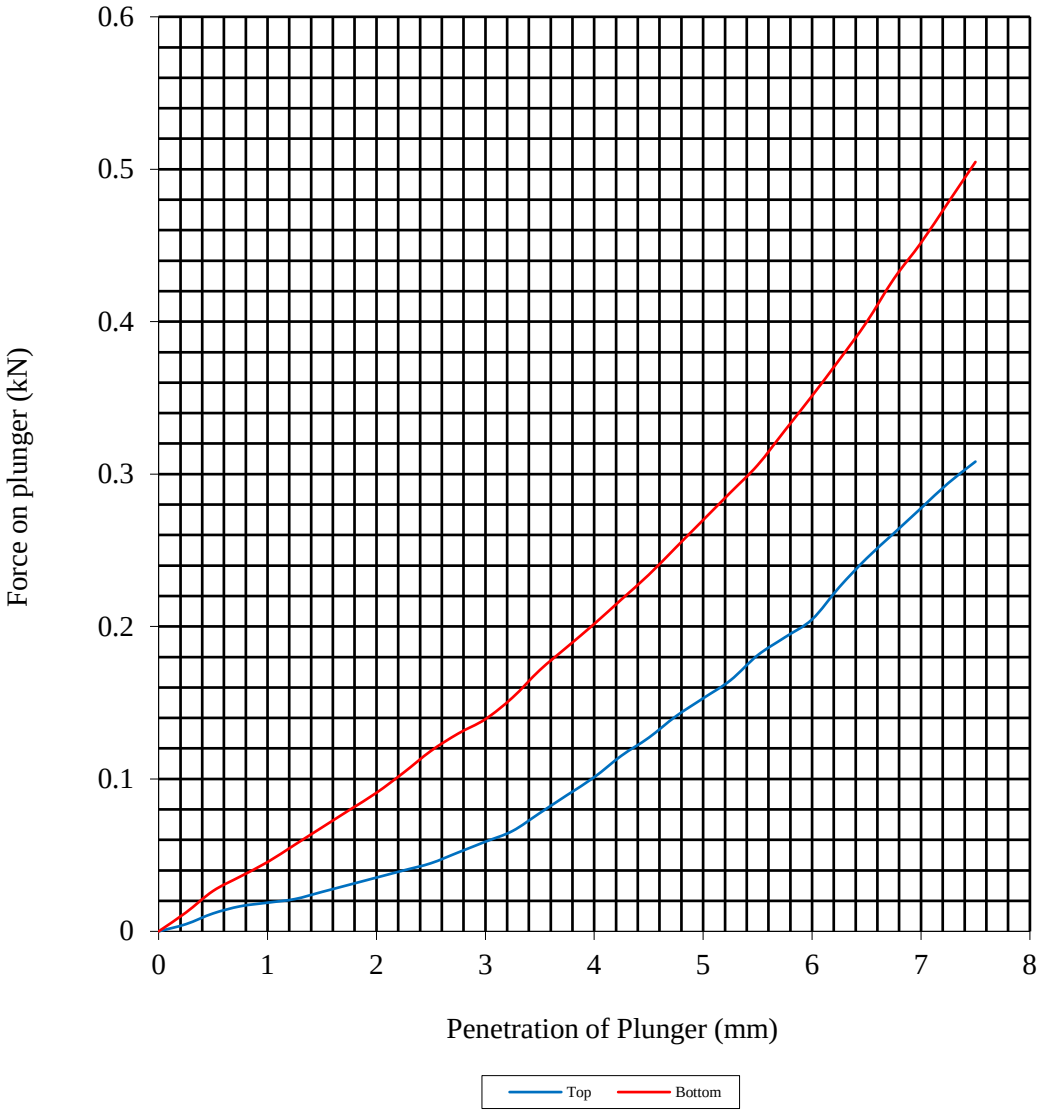
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: TP3 **Top Depth (m):** 1.30

Sample Number: **Base Depth (m):**

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	27	Surcharge Kg:	4.20	Sample Top	30	Sample Top	0.8
Bulk Density Mg/m3:	1.89	Soaking Time hrs	96	Sample Bottom	29	Sample Bottom	1.3
Dry Density Mg/m3:	1.49	Swelling mm:	0.42	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: PSL22/3231

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UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

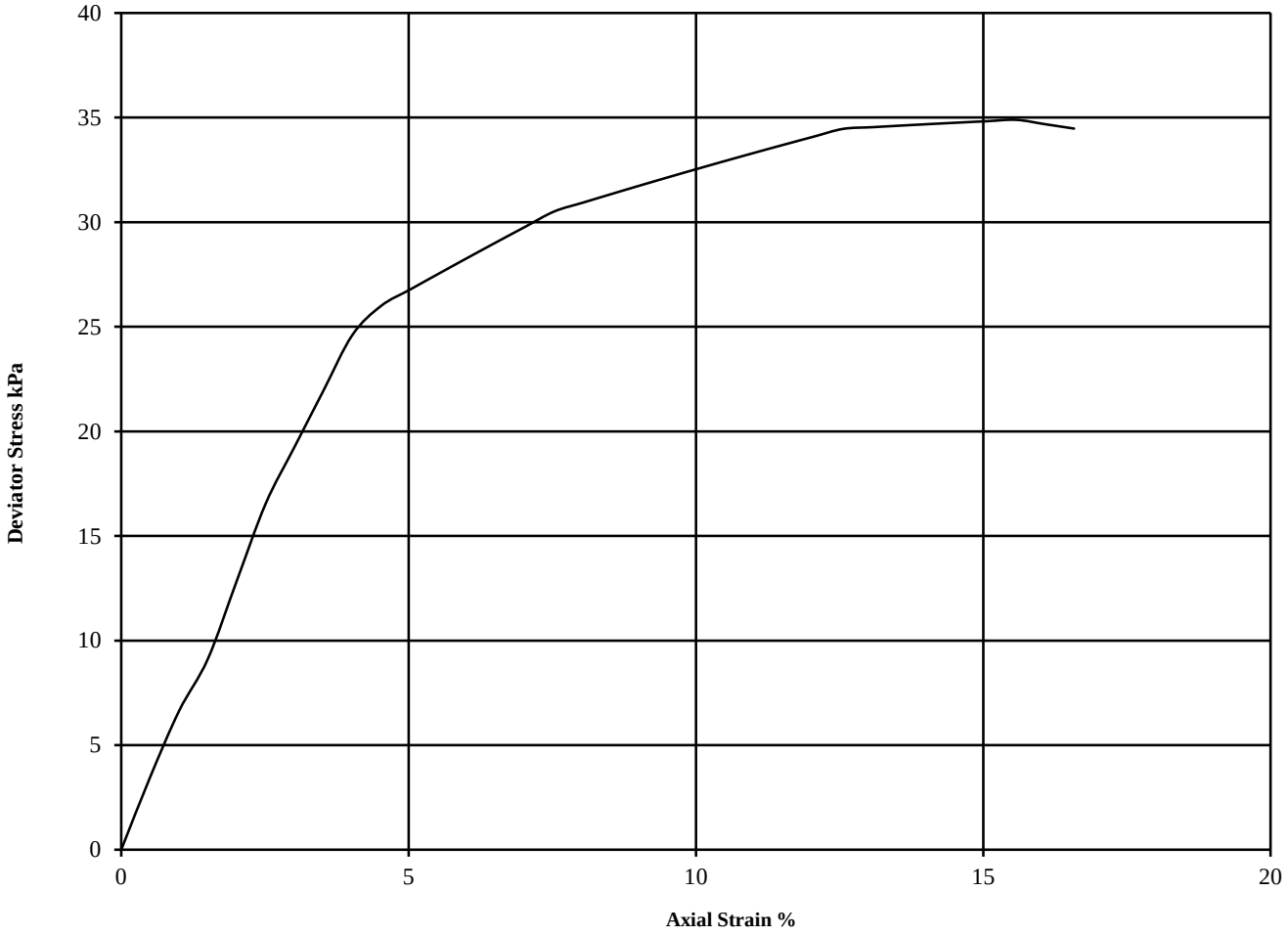
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP2** **Top Depth (m):** **8.55**

Sample Number: **Base Depth (m):** **9.00**

Sample Type **U**



Diameter (mm):		103	Height (mm):		205	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	60	1.53	0.95	95	35	17	15.6	Plastic	See summary of soil descriptions

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PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: **PSL22/3231**

Client Ref: **46934**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

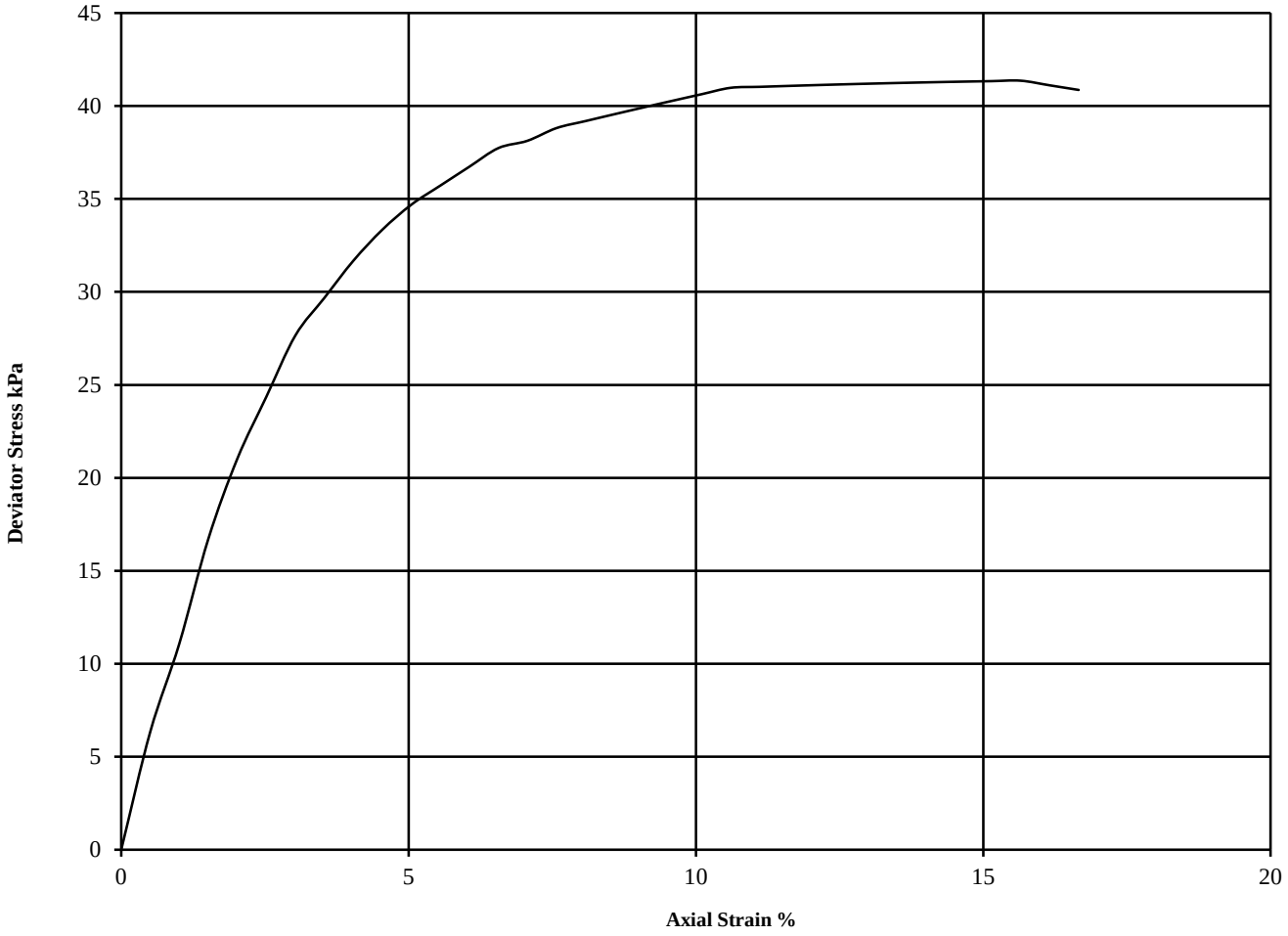
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP4** **Top Depth (m):** **4.50**

Sample Number: **Base Depth (m):**

Sample Type **U**



Diameter (mm):		103	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	115	1.40	0.65	65	41	21	15.7	Plastic	See summary of soil descriptions

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:** PSL22/3231 **Client Ref:** 46934

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

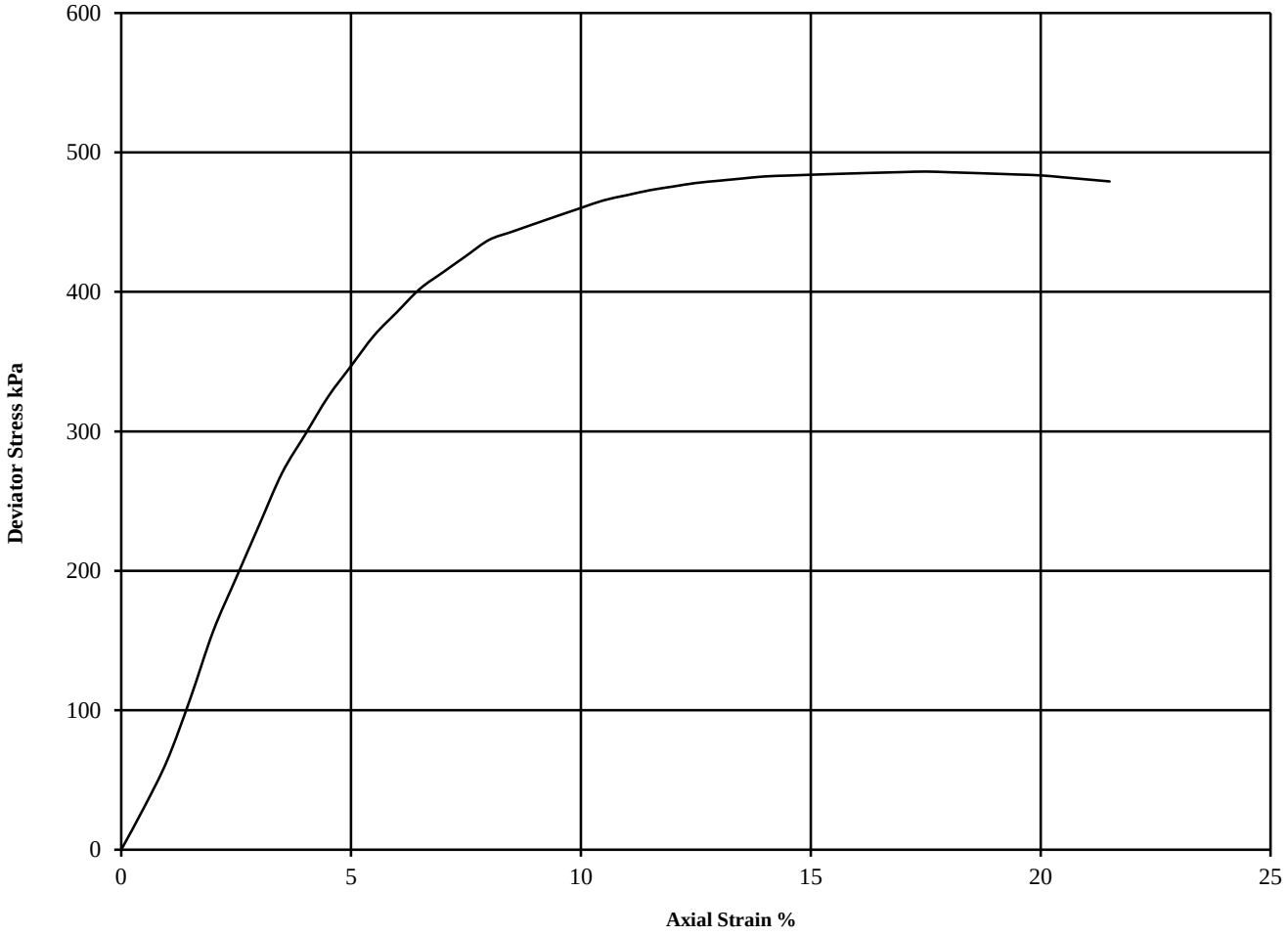
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP6** **Top Depth (m):** **13.50**

Sample Number: **Base Depth (m):** **13.95**

Sample Type **U**



Diameter (mm):		103	Height (mm):		206	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	15	2.21	1.92	138	486	243	17.5	Intermediate	See summary of soil descriptions

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: **PSL22/3231**

Client Ref: **46934**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

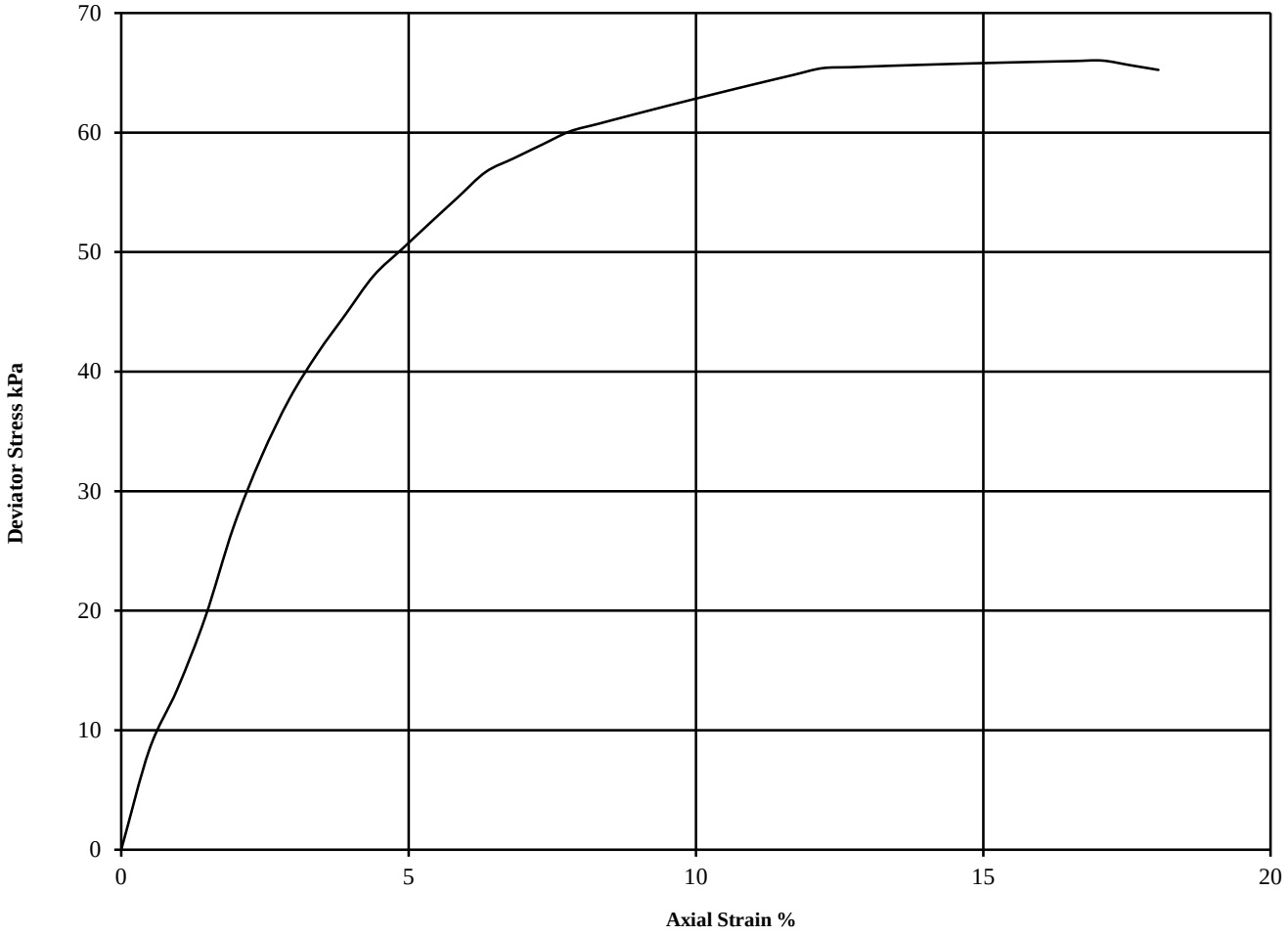
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP8** **Top Depth (m):** **1.20**

Sample Number: **Base Depth (m):** **1.65**

Sample Type **U**



Diameter (mm):		100	Height (mm):		205	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35
1	32	1.88	1.42	22	66	33	17.1	Plastic	See summary of soil descriptions

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:** PSL22/3231 **Client Ref:** 46934

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

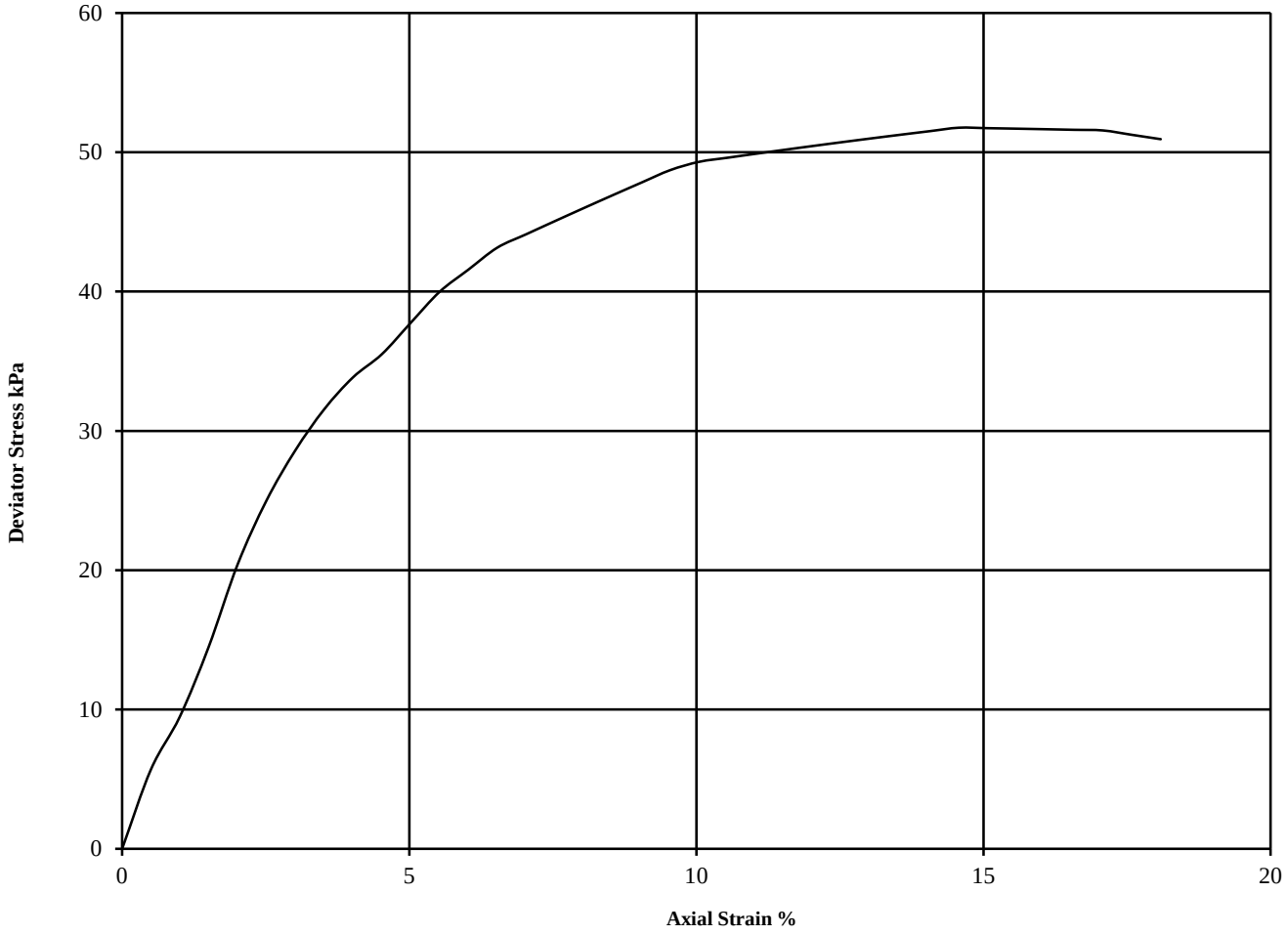
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP8** **Top Depth (m):** **4.20**

Sample Number: **Base Depth (m):** **4.65**

Sample Type **U**



Diameter (mm):		103	Height (mm):		205	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	93	1.48	0.77	64	52	26	14.6	Plastic	See summary of soil descriptions

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: **PSL22/3231**

Client Ref: **46934**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

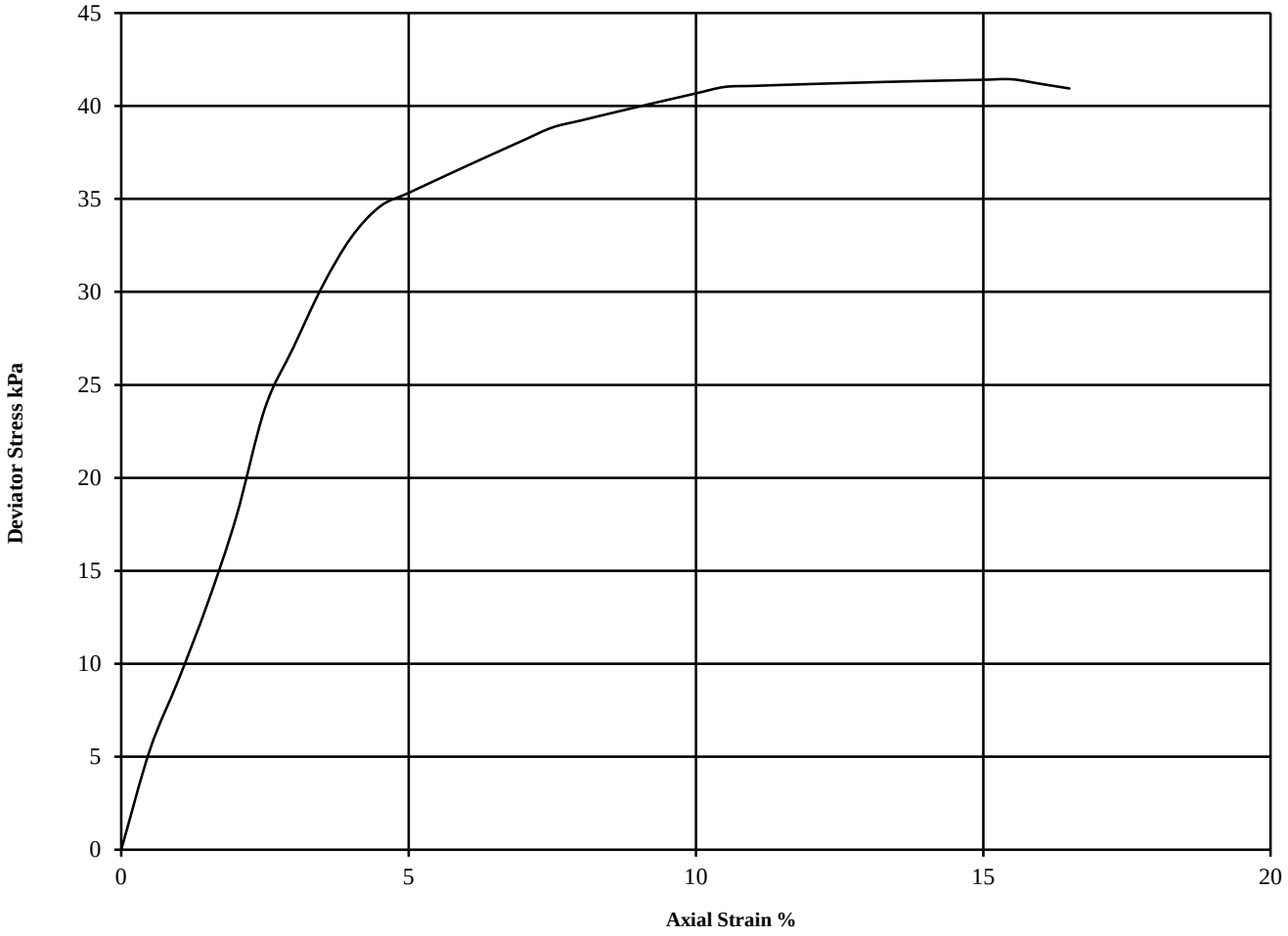
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP10** **Top Depth (m):** **2.20**

Sample Number: **Base Depth (m):** **2.65**

Sample Type **U**



Diameter (mm):		103	Height (mm):		206	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	62	1.65	1.02	40	41	21	15.5	Plastic	See summary of soil descriptions

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:** **PSL22/3231** **Client Ref:** **46934**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

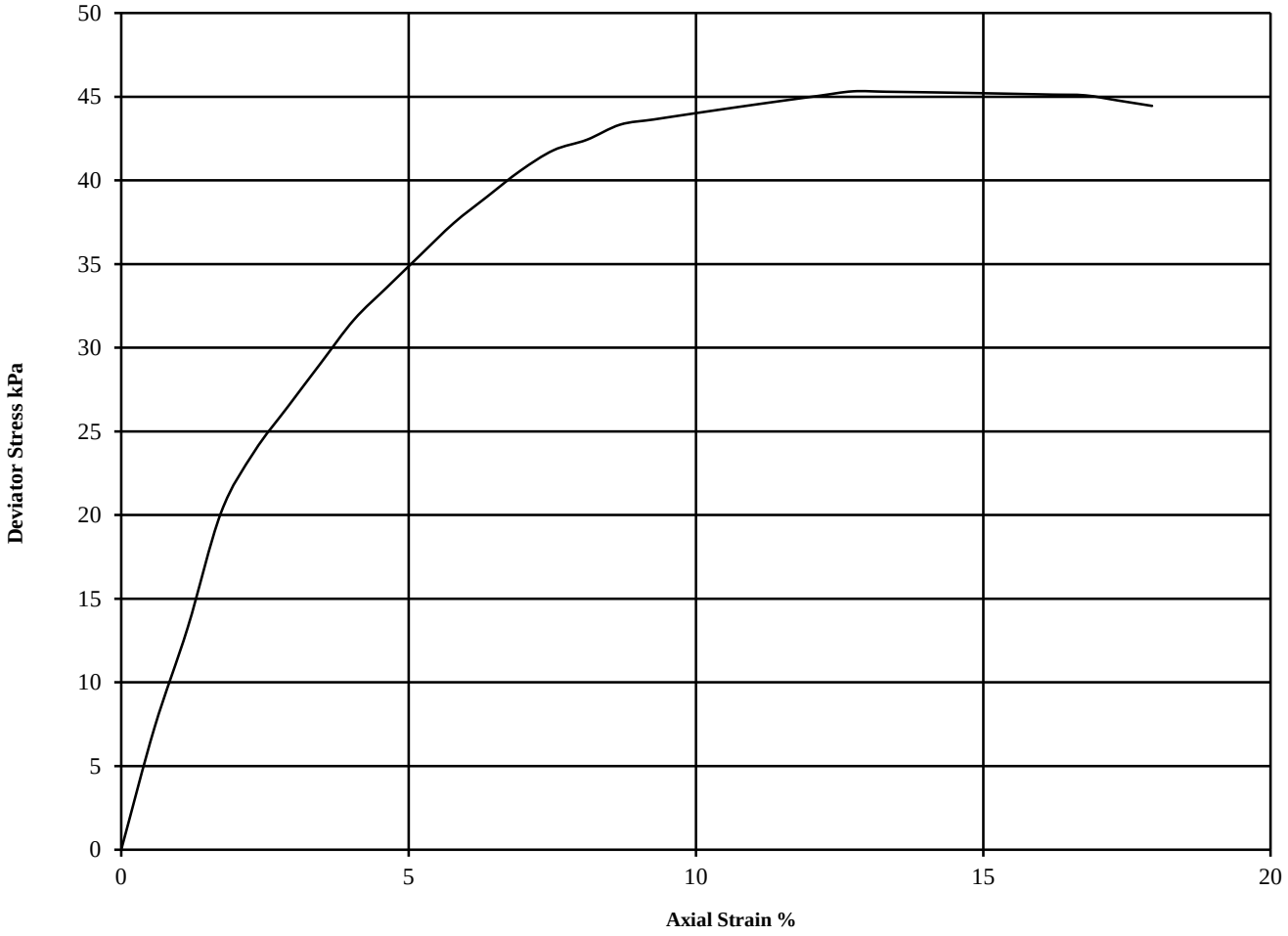
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP10** **Top Depth (m):** **8.85**

Sample Number: **Base Depth (m):** **9.30**

Sample Type **U**



Diameter (mm):		103	Height (mm):		178	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35
1	52	1.59	1.05	101	45	23	12.7	Plastic	See summary of soil descriptions

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:** PSL22/3231 **Client Ref:** 46934

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

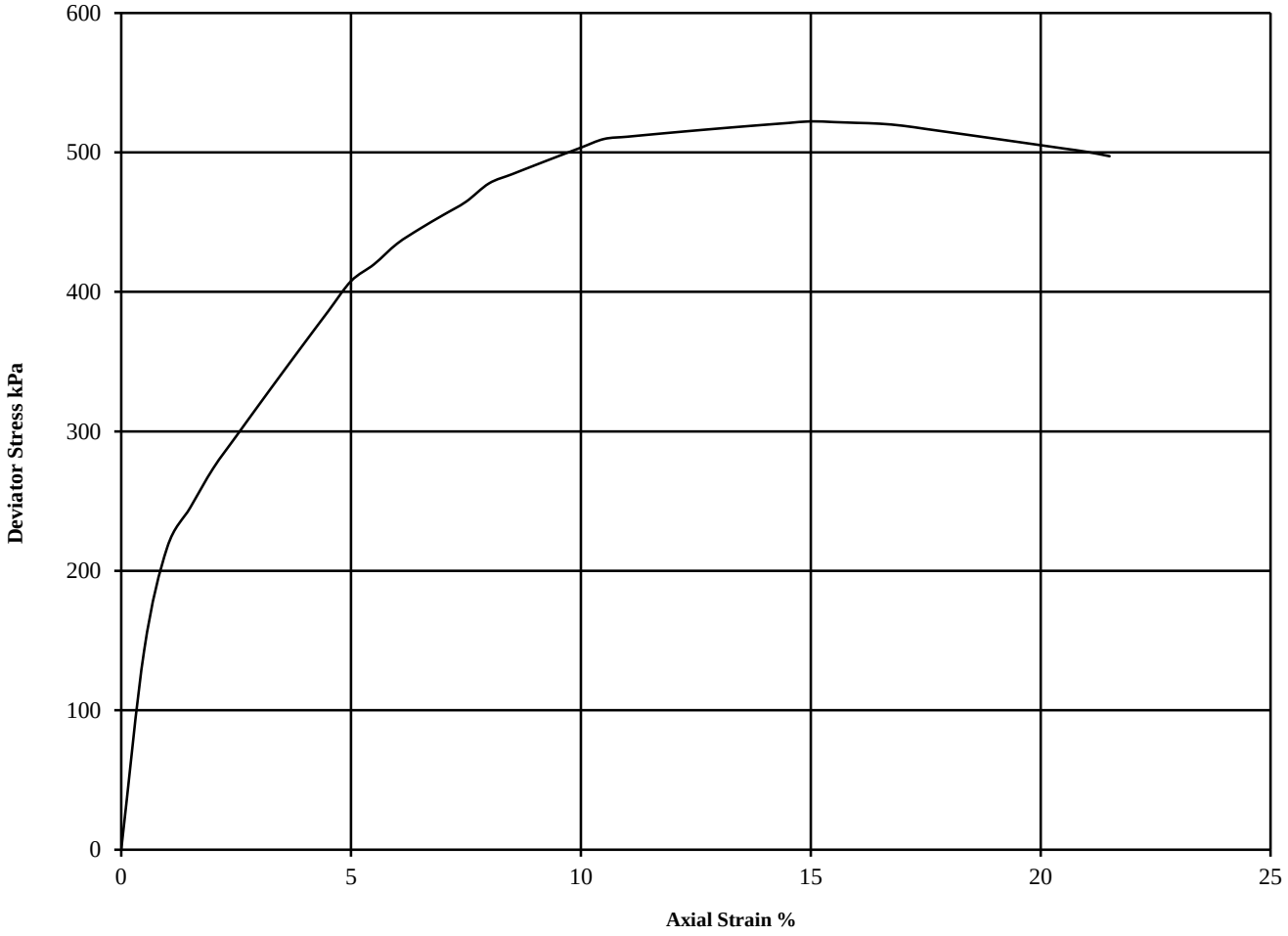
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP10** **Top Depth (m):** **13.35**

Sample Number: **Base Depth (m):** **13.80**

Sample Type **U**



Diameter (mm):		103	Height (mm):		206	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	16	2.06	1.77	137	522	261	15.0	Intermediate	See summary of soil descriptions

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No:
PSL22/3231
Client Ref:
46934

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

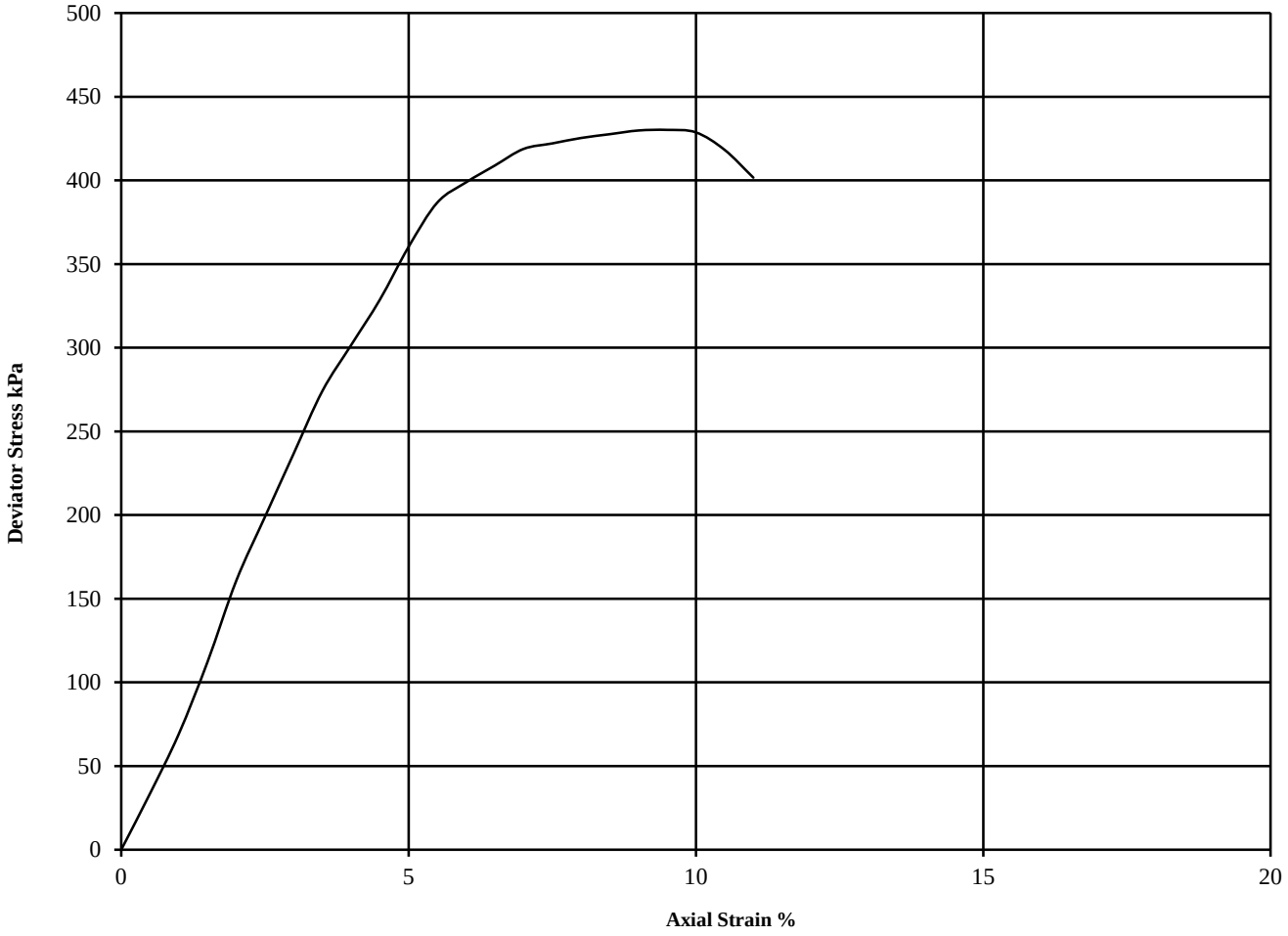
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP10** **Top Depth (m):** **16.45**

Sample Number: **Base Depth (m):** **16.90**

Sample Type **U**



Diameter (mm):		103	Height (mm):		206	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35
1	16	2.13	1.84	162	430	215	9.5	Brittle	See summary of soil descriptions

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: **PSL22/3231**

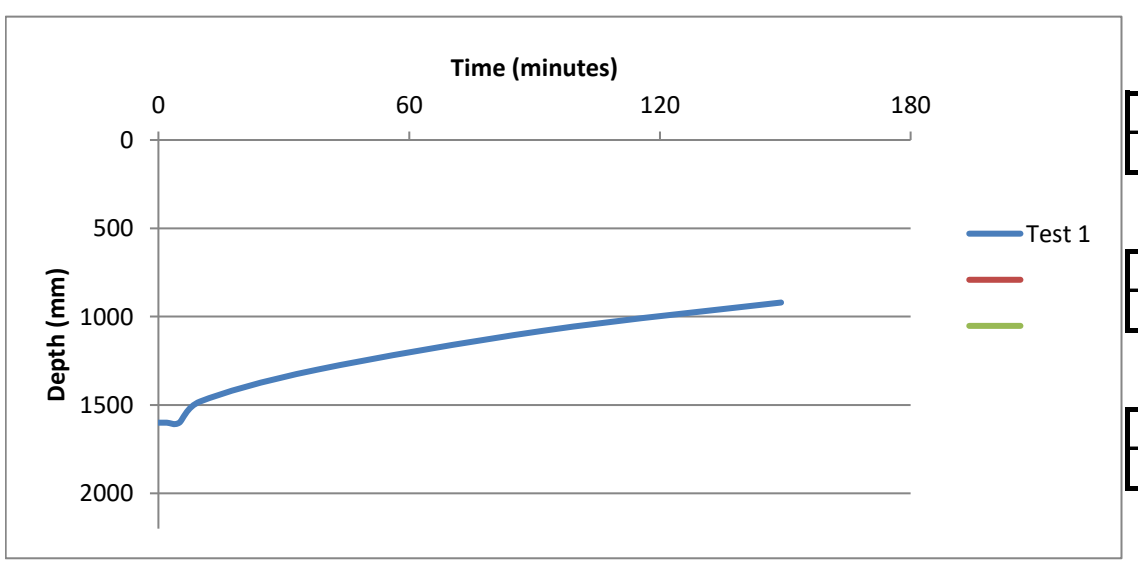
Client Ref: **46934**

EASTWOOD PARTNERS
(Consulting Engineers) Ltd

Infiltration Test Results and Calculation of Infiltration Rates

Site: Lincs Gateway, Spalding
Client: Alcor Properties Limited
Test Reference: SA01/TP02

Test 1											
Pit Dimensions				**Pit Dimensions**				**Pit Dimensions**			
Trial pit length (mm)		1800		Trial pit length (mm)				Trial pit length (mm)			
Trial pit width (mm)		800		Trial pit width (mm)				Trial pit width (mm)			
Trial pit depth (mm)		2200		Trial pit depth (mm)				Trial pit depth (mm)			
Plan area (m^2)		1.44		Plan area (m^2)				Plan area (m^2)			
Time to discharge water (s)				Time to discharge water (s)				Time to discharge water (s)			
Depth to water at start of test (mm)		1600		Depth to water at start of test (mm)				Depth to water at start of test (mm)			
Time to soakaway				**Time to soakaway**				**Time to soakaway**			
Time		Depth to Water	Duration	Time		Depth to Water	Duration	Time		Depth to Water	Duration
Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes
1	09:41	1600	0								
1	09:43	1600	2								
1	09:46	1600	5								
1	09:51	1480	10								
1	10:19	1300	38								
1	11:13	1080	92								
1	12:10	920	149								
Final depth		920		Final depth				Final depth			
75% Effective depth (mm)		1750		75% Effective depth (mm)				75% Effective depth (mm)			
25% Effective depth (mm)		2050		25% Effective depth (mm)				25% Effective depth (mm)			
Time at 75% effective depth - t_{p75} (min)		n/a		Time at 75% effective depth - t_{p75} (min)				Time at 75% effective depth - t_{p75} (min)			
Time at 25 % effective depth - t_{p25} (min)		n/a		Time at 25 % effective depth - t_{p25} (min)				Time at 25 % effective depth - t_{p25} (min)			
Effective Storage volume of water (m^3)		0.864		Effective Storage volume of water (m^3)				Effective Storage volume of water (m^3)			
V_{p75-25} (m^3)		0.432		V_{p75-25} (m^3)				V_{p75-25} (m^3)			
Internal surface area - a_{p50} (m^2)		3		Internal surface area - a_{p50} (m^2)				Internal surface area - a_{p50} (m^2)			
t_{p75-25} (sec)		n/a		t_{p75-25} (sec)				t_{p75-25} (sec)			
BR365 Soil Infiltration Rate		**n/a**		**BR365 Soil Infiltration Rate (f)**				**BR365 Soil Infiltration Rate (f)**			
Average Soil Infiltration Rate		**n/a**		**Average Soil Infiltration Rate**				**Average Soil Infiltration Rate**			



Testing completed by	DN
Date	13/04/2022

Calculation completed by	EJD
Date	27/04/2022

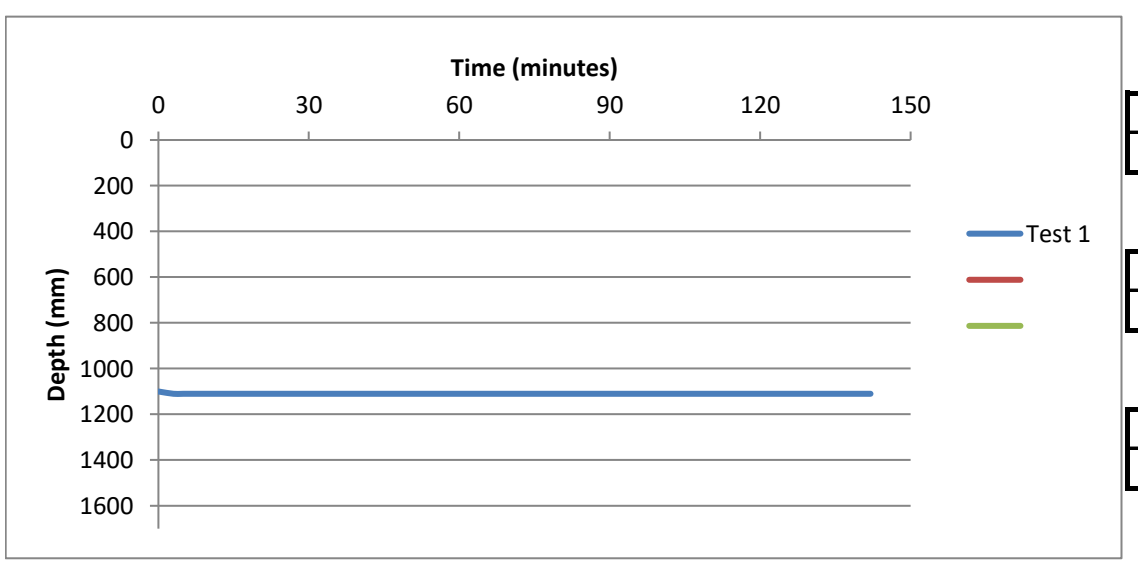
Calculation checked by	DN
Date	28/04/2022

EASTWOOD PARTNERS
(Consulting Engineers) Ltd

Infiltration Test Results and Calculation of Infiltration Rates

Site: Lincs Gateway, Spalding
Client: Alcor Properties Limited
Test Reference: SA02/TP14

Test 1											
Pit Dimensions				**Pit Dimensions**				**Pit Dimensions**			
Trial pit length (mm)		1600		Trial pit length (mm)				Trial pit length (mm)			
Trial pit width (mm)		600		Trial pit width (mm)				Trial pit width (mm)			
Trial pit depth (mm)		1700		Trial pit depth (mm)				Trial pit depth (mm)			
Plan area (m^2)		0.96		Plan area (m^2)				Plan area (m^2)			
Time to discharge water (s)				Time to discharge water (s)				Time to discharge water (s)			
Depth to water at start of test (mm)		1100		Depth to water at start of test (mm)				Depth to water at start of test (mm)			
Time to soakaway				**Time to soakaway**				**Time to soakaway**			
Time		Depth to Water	Duration	Time		Depth to Water	Duration	Time		Depth to Water	Duration
Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes
1	10:00	1100	0								
1	10:03	1110	3								
1	10:05	1110	5								
1	10:10	1110	10								
1	11:24	1110	84								
1	12:22	1110	142								
Final depth		1110		Final depth				Final depth			
75% Effective depth (mm)			1250	75% Effective depth (mm)				75% Effective depth (mm)			
25% Effective depth (mm)			1550	25% Effective depth (mm)				25% Effective depth (mm)			
Time at 75% effective depth - t_{p75} (min)			n/a	Time at 75% effective depth - t_{p75} (min)				Time at 75% effective depth - t_{p75} (min)			
Time at 25 % effective depth - t_{p25} (min)			n/a	Time at 25 % effective depth - t_{p25} (min)				Time at 25 % effective depth - t_{p25} (min)			
Effective Storage volume of water (m^3)			0.576	Effective Storage volume of water (m^3)				Effective Storage volume of water (m^3)			
V_{p75-25} (m^3)			0.288	V_{p75-25} (m^3)				V_{p75-25} (m^3)			
Internal surface area - a_{p50} (m^2)			2.28	Internal surface area - a_{p50} (m^2)				Internal surface area - a_{p50} (m^2)			
t_{p75-25} (sec)			n/a	t_{p75-25} (sec)				t_{p75-25} (sec)			
BR365 Soil Infiltration Rate			**n/a**	**BR365 Soil Infiltration Rate (f)**				**BR365 Soil Infiltration Rate (f)**			
Average Soil Infiltration Rate			**3.1E-07**	**Average Soil Infiltration Rate**				**Average Soil Infiltration Rate**			



Testing completed by	DN
Date	13/04/2022

Calculation completed by	EJD
Date	27/04/2022

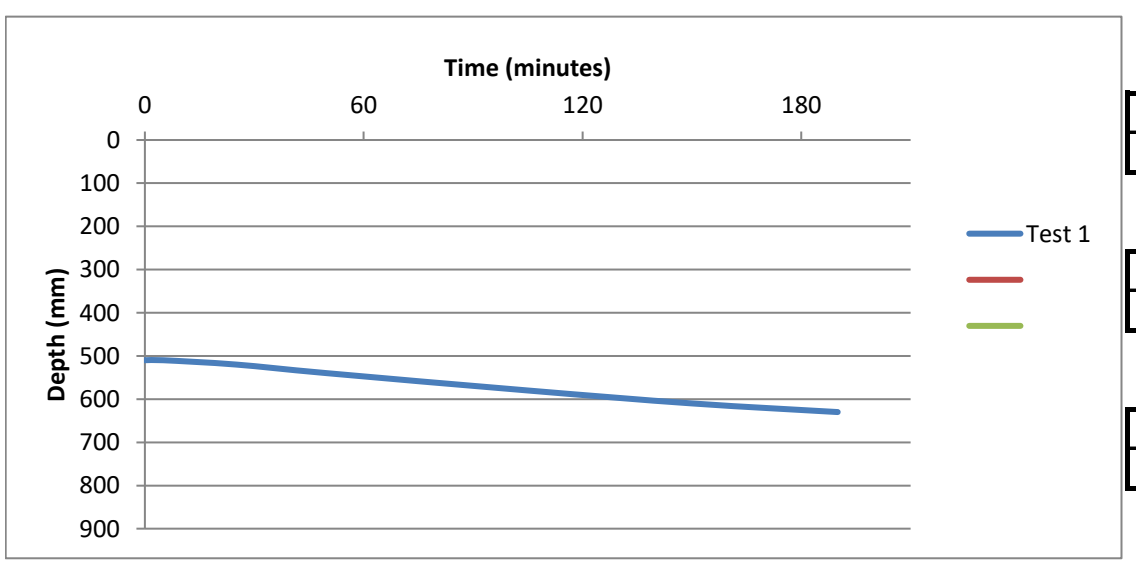
Calculation checked by	DN
Date	28/04/2022

EASTWOOD PARTNERS
(Consulting Engineers) Ltd

Infiltration Test Results and Calculation of Infiltration Rates

Site: Lincs Gateway, Spalding
Client: Alcor Properties Limited
Test Reference: SA03/TP18B

Test 1											
Pit Dimensions											
Trial pit length (mm)	2500										
Trial pit width (mm)	600										
Trial pit depth (mm)	900										
Plan area (m^2)	1.5										
Time to discharge water (s)	120										
Depth to water at start of test (mm)	510										
Time to soakaway											
Time		Depth to Water	Duration	Time		Depth to Water	Duration	Time		Depth to Water	Duration
Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes
1	10:20	510	0								
1	10:25	510	5								
1	10:45	520	25								
1	11:05	540	50								
1	12:00	580	105								
1	12:45	610	150								
1	13:25	630	190								
Final depth		630		Final depth				Final depth			
75% Effective depth (mm)	607.5			75% Effective depth (mm)				75% Effective depth (mm)			
25% Effective depth (mm)	802.5			25% Effective depth (mm)				25% Effective depth (mm)			
Time at 75% effective depth - t_{p75} (min)	148			Time at 75% effective depth - t_{p75} (min)				Time at 75% effective depth - t_{p75} (min)			
Time at 25 % effective depth - t_{p25} (min)	m/a			Time at 25 % effective depth - t_{p25} (min)				Time at 25 % effective depth - t_{p25} (min)			
Effective Storage volume of water (m^3)	0.585			Effective Storage volume of water (m^3)				Effective Storage volume of water (m^3)			
V_{p75-25} (m^3)	0.2925			V_{p75-25} (m^3)				V_{p75-25} (m^3)			
Internal surface area - a_{p50} (m^2)	2.709			Internal surface area - a_{p50} (m^2)				Internal surface area - a_{p50} (m^2)			
t_{p75-25} (sec)	n/a			t_{p75-25} (sec)				t_{p75-25} (sec)			
BR365 Soil Infiltration Rate	**n/a**			**BR365 Soil Infiltration Rate (f)**				**BR365 Soil Infiltration Rate (f)**			
Average Soil Infiltration Rate	**4.5E-06**			**Average Soil Infiltration Rate**				**Average Soil Infiltration Rate**			



Testing completed by	DN
Date	13/04/2022

Calculation completed by	EJD
Date	27/04/2022

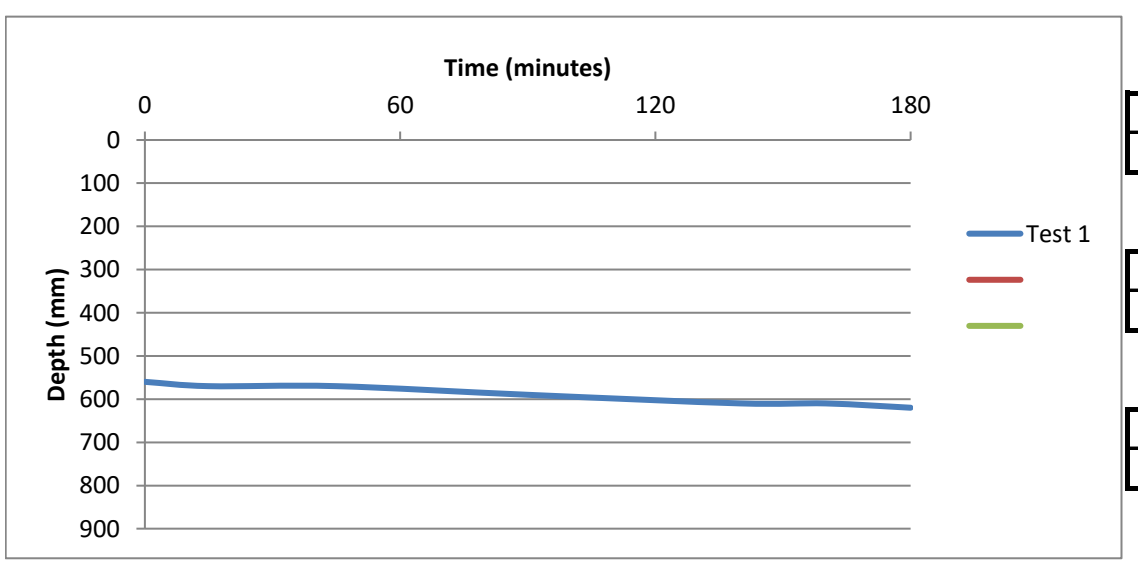
Calculation checked by	DN
Date	28/04/2022

EASTWOOD PARTNERS
(Consulting Engineers) Ltd

Infiltration Test Results and Calculation of Infiltration Rates

Site: Lincs Gateway, Spalding
Client: Alcor Properties Limited
Test Reference: SA04/TP33B

Test 1											
Pit Dimensions				**Pit Dimensions**				**Pit Dimensions**			
Trial pit length (mm)		2300		Trial pit length (mm)				Trial pit length (mm)			
Trial pit width (mm)		600		Trial pit width (mm)				Trial pit width (mm)			
Trial pit depth (mm)		950		Trial pit depth (mm)				Trial pit depth (mm)			
Plan area (m^2)		1.38		Plan area (m^2)				Plan area (m^2)			
Time to discharge water (s)		30		Time to discharge water (s)				Time to discharge water (s)			
Depth to water at start of test (mm)		560		Depth to water at start of test (mm)				Depth to water at start of test (mm)			
Time to soakaway				**Time to soakaway**				**Time to soakaway**			
Time		Depth to Water	Duration	Time		Depth to Water	Duration	Time		Depth to Water	Duration
Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes
2	11:30	560	0								
2	11:45	570	15								
2	12:15	570	45								
2	13:00	590	90								
2	13:50	610	140								
2	14:10	610	160								
2	14:30	620	180								
Final depth		620		Final depth				Final depth			
75% Effective depth (mm)			657.5	75% Effective depth (mm)				75% Effective depth (mm)			
25% Effective depth (mm)			852.5	25% Effective depth (mm)				25% Effective depth (mm)			
Time at 75% effective depth - t_{p75} (min)			n/a	Time at 75% effective depth - t_{p75} (min)				Time at 75% effective depth - t_{p75} (min)			
Time at 25 % effective depth - t_{p25} (min)			n/a	Time at 25 % effective depth - t_{p25} (min)				Time at 25 % effective depth - t_{p25} (min)			
Effective Storage volume of water (m^3)			0.5382	Effective Storage volume of water (m^3)				Effective Storage volume of water (m^3)			
V_{p75-25} (m^3)			0.2691	V_{p75-25} (m^3)				V_{p75-25} (m^3)			
Internal surface area - a_{p50} (m^2)			2.511	Internal surface area - a_{p50} (m^2)				Internal surface area - a_{p50} (m^2)			
t_{p75-25} (sec)			n/a	t_{p75-25} (sec)				t_{p75-25} (sec)			
BR365 Soil Infiltration Rate			**n/a**	**BR365 Soil Infiltration Rate (f)**				**BR365 Soil Infiltration Rate (f)**			
Average Soil Infiltration Rate			**2.2E-06**	**Average Soil Infiltration Rate**				**Average Soil Infiltration Rate**			



Testing completed by	DN
Date	13/04/2022

Calculation completed by	EJD
Date	27/04/2022

Calculation checked by	DN
Date	28/04/2022

Appendix 5

Chemical Test Results – Chemtest Reports 22-14360-6 & 22-16401-1, Chemtech Report 109316-1

Modified Mean Calculation sheets

Table of Assessment Values – Commercial / Industrial End-Use

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	22-14360-6		
Initial Date of Issue:	25-Apr-2022	**Date of Re-Issue:**	23-May-2022
Client	Eastwood & Partners		
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS		
Contact(s):	Daniel Nowell Geo		
Project	DN/AJK/46934 Lincs Gateway, Spalding		
Quotation No.:		**Date Received:**	19-Apr-2022
Order No.:	46934	**Date Instructed:**	19-Apr-2022
No. of Samples:	43		
Turnaround (Wkdays):	25	**Results Due:**	24-May-2022
Date Approved:	23-May-2022		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412730	1412731	1412732	1412733	1412734	1412735	1412736	1412737	1412738
Order No.: 46934		Client Sample Ref.:			TP01	TP02	TP02	TP03	TP04	TP04	TP05	TP08	TP08
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.3	0.3	0.6	0.3	0.3	1.5	0.3	0.3	0.6
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-	-		-	-		-	-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	
Moisture	N	2030	%	0.020	17	14	16	15	19	33	16	15	18
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Sand	Sand	Sand	Clay	Clay	Clay	Sand	Sand
pH	M	2010		4.0	8.3	8.2	8.6	8.6	9.0	7.4	9.0	8.7	8.7
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010			0.041			0.31			0.018
Total Sulphur	M	2175	%	0.010			0.016			0.16			< 0.010
Sulphate (Acid Soluble)	U	2430	%	0.010			< 0.010			0.031			< 0.010
Arsenic	M	2455	mg/kg	1.0	7.2	13	8.2	1.9	6.4		5.4	4.7	7.0
Cadmium	M	2455	mg/kg	0.10	0.12	0.11	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	1.0	16	29	16	5.5	15		14	11	14
Copper	M	2455	mg/kg	0.50	9.7	16	10	3.2	8.7		8.0	6.1	6.2
Mercury	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Nickel	M	2455	mg/kg	0.50	14	25	14	4.9	14		13	9.7	13
Lead	M	2455	mg/kg	0.50	10	19	9.0	2.8	7.7		7.1	5.5	5.7
Selenium	M	2455	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Zinc	M	2455	mg/kg	0.50	31	54	33	12	29		28	22	15
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20					1.3	1.9			
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412730	1412731	1412732	1412733	1412734	1412735	1412736	1412737	1412738
Order No.: 46934		Client Sample Ref.:			TP01	TP02	TP02	TP03	TP04	TP04	TP05	TP08	TP08
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.3	0.3	0.6	0.3	0.3	1.5	0.3	0.3	0.6
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0
Demeton-O	N	2820	mg/kg	0.20									
Phorate	N	2820	mg/kg	0.20									
Demeton-S	N	2820	mg/kg	0.20									
Disulfoton	N	2820	mg/kg	0.20									
Fenthion	N	2820	mg/kg	0.20									
Trichloronate	N	2820	mg/kg	0.20									
Prothiofos	N	2820	mg/kg	0.20									
Fensulphothion	N	2820	mg/kg	0.20									
Sulprofos	N	2820	mg/kg	0.20									
Azinphos-Methyl	N	2820	mg/kg	0.20									
Coumaphos	N	2820	mg/kg	0.20									
Alpha-HCH	N	2840	mg/kg	0.20									
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20									
Beta-HCH	N	2840	mg/kg	0.20									
Delta-HCH	N	2840	mg/kg	0.20									
Heptachlor	N	2840	mg/kg	0.20									
Aldrin	N	2840	mg/kg	0.20									
Heptachlor Epoxide	N	2840	mg/kg	0.20									
Gamma-Chlordane	N	2840	mg/kg	0.20									
Alpha-Chlordane	N	2840	mg/kg	0.20									
Endosulfan I	N	2840	mg/kg	0.20									
4,4-DDE	N	2840	mg/kg	0.20									
Dieldrin	N	2840	mg/kg	0.20									
Endrin	N	2840	mg/kg	0.20									
4,4-DDD	N	2840	mg/kg	0.20									
Endosulfan II	N	2840	mg/kg	0.20									
Endrin Aldehyde	N	2840	mg/kg	0.20									
4,4-DDT	N	2840	mg/kg	0.20									
Endosulfan Sulphate	N	2840	mg/kg	0.20									
Methoxychlor	N	2840	mg/kg	0.20									
Endrin Ketone	N	2840	mg/kg	0.20									

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners				**Chemtest Job No.:**	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:				**Chemtest Sample ID.:**	1412739	1412740	1412741	1412742	1412743	1412744	1412745	1412746	1412747
Order No.: 46934				Client Sample Ref.:	TP08	TP11	TP11	TP12	TP12	TP13	TP15	TP16	TP17
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	1.6	0.3	1.2	0.2	0.6	0.8	0.3	0.5	0.1
				Date Sampled:	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
				Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A		-		-			-		-
Asbestos Identification	U	2192		N/A		No Asbestos Detected		No Asbestos Detected			No Asbestos Detected		No Asbestos Detected
Moisture	N	2030	%	0.020	30	17	33	16	29	26	19	20	16
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones and Roots	Stones	Stones and Roots
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Sand	Sand	Clay	Loam	Clay	Sand
pH	M	2010		4.0	8.3	8.6	8.5	8.5	8.7	8.5	8.5	8.4	8.5
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.093		0.050		0.017	0.037		0.035	
Total Sulphur	M	2175	%	0.010	0.046		0.043		0.022	0.026		0.028	
Sulphate (Acid Soluble)	U	2430	%	0.010	0.075		0.045		< 0.010	0.018		0.018	
Arsenic	M	2455	mg/kg	1.0		14		7.4	3.9	13	9.5	8.5	11
Cadmium	M	2455	mg/kg	0.10		0.13		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	1.0		27		15	7.5	35	20	21	21
Copper	M	2455	mg/kg	0.50		20		9.5	2.9	13	21	7.6	12
Mercury	M	2455	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2455	mg/kg	0.50		22		13	7.1	31	17	17	17
Lead	M	2455	mg/kg	0.50		14		8.0	2.7	13	17	8.2	11
Selenium	M	2455	mg/kg	0.20		< 0.20		< 0.20	< 0.20	0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2455	mg/kg	0.50		36		14	< 0.50	49	38	19	24
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	1.1	1.3	1.2						1.1
Naphthalene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	0.18	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	0.17	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412739	1412740	1412741	1412742	1412743	1412744	1412745	1412746	1412747
Order No.: 46934		Client Sample Ref.:			TP08	TP11	TP11	TP12	TP12	TP13	TP15	TP16	TP17
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			1.6	0.3	1.2	0.2	0.6	0.8	0.3	0.5	0.1
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Total Of 16 PAH's	N	2800	mg/kg	2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Demeton-O	N	2820	mg/kg	0.20		< 0.20							< 0.20
Phorate	N	2820	mg/kg	0.20		< 0.20							< 0.20
Demeton-S	N	2820	mg/kg	0.20		< 0.20							< 0.20
Disulfoton	N	2820	mg/kg	0.20		< 0.20							< 0.20
Fenthion	N	2820	mg/kg	0.20		< 0.20							< 0.20
Trichloronate	N	2820	mg/kg	0.20		< 0.20							< 0.20
Prothiofos	N	2820	mg/kg	0.20		< 0.20							< 0.20
Fensulphothion	N	2820	mg/kg	0.20		< 0.20							< 0.20
Sulprofos	N	2820	mg/kg	0.20		< 0.20							< 0.20
Azinphos-Methyl	N	2820	mg/kg	0.20		< 0.20							< 0.20
Coumaphos	N	2820	mg/kg	0.20		< 0.20							< 0.20
Alpha-HCH	N	2840	mg/kg	0.20		< 0.20							< 0.20
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20		< 0.20							< 0.20
Beta-HCH	N	2840	mg/kg	0.20		< 0.20							< 0.20
Delta-HCH	N	2840	mg/kg	0.20		< 0.20							< 0.20
Heptachlor	N	2840	mg/kg	0.20		< 0.20							< 0.20
Aldrin	N	2840	mg/kg	0.20		< 0.20							< 0.20
Heptachlor Epoxide	N	2840	mg/kg	0.20		< 0.20							< 0.20
Gamma-Chlordane	N	2840	mg/kg	0.20		< 0.20							< 0.20
Alpha-Chlordane	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endosulfan I	N	2840	mg/kg	0.20		< 0.20							< 0.20
4,4-DDE	N	2840	mg/kg	0.20		< 0.20							< 0.20
Dieldrin	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endrin	N	2840	mg/kg	0.20		< 0.20							< 0.20
4,4-DDD	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endosulfan II	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endrin Aldehyde	N	2840	mg/kg	0.20		< 0.20							< 0.20
4,4-DDT	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endosulfan Sulphate	N	2840	mg/kg	0.20		< 0.20							< 0.20
Methoxychlor	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endrin Ketone	N	2840	mg/kg	0.20		< 0.20							< 0.20

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412748	1412749	1412750	1412751	1412752	1412753	1412754	1412755	1412756
Order No.: 46934		Client Sample Ref.:			TP18	TP19	TP20	TP20	TP21	TP21	TP22	TP22	TP23
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.1	0.1	0.1	0.5	0.1	1.2	0.1	0.9	0.1
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-	-	-	-	-		-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	18	16	12	19	23	29	9.3	15	15
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones and Roots	Stones	Stones and Roots	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Sand
pH	M	2010		4.0	8.5	8.6	8.6	8.6	8.3	8.2	8.6	8.3	8.6
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010			0.11	0.12	0.20	0.17	0.21	0.39	
Total Sulphur	M	2175	%	0.010			0.23	0.023	0.11	0.13	0.11	0.15	
Sulphate (Acid Soluble)	U	2430	%	0.010			0.16	0.017	0.080	0.055	0.077	0.069	
Arsenic	M	2455	mg/kg	1.0	11	8.4	18	10	9.1		6.8	8.2	5.3
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	0.14	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	1.0	23	17	23	16	14		11	14	11
Copper	M	2455	mg/kg	0.50	13	11	19	7.5	23		8.7	9.5	7.5
Mercury	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.16		< 0.10	< 0.10	< 0.10
Nickel	M	2455	mg/kg	0.50	19	15	20	15	15		10	13	9.2
Lead	M	2455	mg/kg	0.50	13	10	16	6.8	59		10	6.2	7.9
Selenium	M	2455	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Zinc	M	2455	mg/kg	0.50	31	21	39	16	55		25	19	15
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20		1.2				2.2			0.20
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.37	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	0.98	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.75	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.79	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	8.7	< 0.10	1.8		6.8	0.15	0.81
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	3.1	< 0.10	0.43		2.9	< 0.10	0.33
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	27	0.18	3.0		7.2	0.28	2.9
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	25	0.13	2.4		5.6	0.25	2.7
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	16	0.11	1.2		3.0	0.13	1.7
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	17	0.13	1.1		2.6	0.11	1.5
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	29	< 0.10	1.6		4.2	0.18	2.4
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	11	< 0.10	0.62		1.6	< 0.10	0.95
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	27	< 0.10	1.3		3.8	< 0.10	2.2
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	20	< 0.10	0.84		2.6	0.17	1.5
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	3.9	< 0.10	0.19		0.53	0.18	0.29
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	22	< 0.10	0.95		3.0	0.13	1.6

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners			**Chemtest Job No.:**		22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:			**Chemtest Sample ID.:**		1412748	1412749	1412750	1412751	1412752	1412753	1412754	1412755	1412756
Order No.: 46934			Client Sample Ref.:		TP18	TP19	TP20	TP20	TP21	TP21	TP22	TP22	TP23
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.1	0.1	0.1	0.5	0.1	1.2	0.1	0.9	0.1
			Date Sampled:		12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
			Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	210	< 2.0	15		44	< 2.0	19
Demeton-O	N	2820	mg/kg	0.20									
Phorate	N	2820	mg/kg	0.20									
Demeton-S	N	2820	mg/kg	0.20									
Disulfoton	N	2820	mg/kg	0.20									
Fenthion	N	2820	mg/kg	0.20									
Trichloronate	N	2820	mg/kg	0.20									
Prothiofos	N	2820	mg/kg	0.20									
Fensulphothion	N	2820	mg/kg	0.20									
Sulprofos	N	2820	mg/kg	0.20									
Azinphos-Methyl	N	2820	mg/kg	0.20									
Coumaphos	N	2820	mg/kg	0.20									
Alpha-HCH	N	2840	mg/kg	0.20									
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20									
Beta-HCH	N	2840	mg/kg	0.20									
Delta-HCH	N	2840	mg/kg	0.20									
Heptachlor	N	2840	mg/kg	0.20									
Aldrin	N	2840	mg/kg	0.20									
Heptachlor Epoxide	N	2840	mg/kg	0.20									
Gamma-Chlordane	N	2840	mg/kg	0.20									
Alpha-Chlordane	N	2840	mg/kg	0.20									
Endosulfan I	N	2840	mg/kg	0.20									
4,4-DDE	N	2840	mg/kg	0.20									
Dieldrin	N	2840	mg/kg	0.20									
Endrin	N	2840	mg/kg	0.20									
4,4-DDD	N	2840	mg/kg	0.20									
Endosulfan II	N	2840	mg/kg	0.20									
Endrin Aldehyde	N	2840	mg/kg	0.20									
4,4-DDT	N	2840	mg/kg	0.20									
Endosulfan Sulphate	N	2840	mg/kg	0.20									
Methoxychlor	N	2840	mg/kg	0.20									
Endrin Ketone	N	2840	mg/kg	0.20									

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners				**Chemtest Job No.:**	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:				**Chemtest Sample ID.:**	1412757	1412758	1412759	1412760	1412761	1412762	1412763	1412764	1412765
Order No.: 46934				Client Sample Ref.:	TP23	TP24	TP24	TP25	TP25	TP28	TP28	TP29	TP30
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.5	0.1	2.4	0.1	0.5	0.1	0.9	0.1	0.5
				Date Sampled:	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
				Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A		-		-		-		-	
Asbestos Identification	U	2192		N/A		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	
Moisture	N	2030	%	0.020	18	17	29	16	18	12	19	15	17
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones and Roots	Stones	Stones	Stones	Stones	Stones and Roots
Soil Texture	N	2040		N/A	Sand	Sand	Clay	Clay	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	8.7	8.6	8.3	8.6	8.5	8.1	8.5	8.3	8.4
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.19		0.46		0.017	1.1	0.093		0.024
Total Sulphur	M	2175	%	0.010	0.033		0.51		0.011	0.39	0.038		0.027
Sulphate (Acid Soluble)	U	2430	%	0.010	0.023		0.090		< 0.010	0.48	0.049		< 0.010
Arsenic	M	2455	mg/kg	1.0	1.7	5.0		6.6	2.7	11	2.2	3.5	4.1
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	1.0	5.3	14		16	6.4	19	6.5	11	11
Copper	M	2455	mg/kg	0.50	2.2	8.1		8.4	2.5	9.8	3.1	5.5	5.0
Mercury	M	2455	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2455	mg/kg	0.50	5.1	10		11	5.4	16	6.7	11	11
Lead	M	2455	mg/kg	0.50	2.0	8.9		9.4	2.3	11	2.8	8.2	6.0
Selenium	M	2455	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	0.24	< 0.20	< 0.20	< 0.20
Zinc	M	2455	mg/kg	0.50	< 0.50	10		12	< 0.50	41	< 0.50	21	25
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20			1.3			0.34			
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.61	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	0.11	< 0.10		< 0.10	< 0.10	1.4	< 0.10	< 0.10	0.11
Pyrene	M	2800	mg/kg	0.10	0.11	0.12		< 0.10	< 0.10	1.1	< 0.10	< 0.10	0.13
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.80	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.64	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.81	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.44	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.68	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.71	< 0.10	< 0.10	< 0.10

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners			**Chemtest Job No.:**		22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:			**Chemtest Sample ID.:**		1412757	1412758	1412759	1412760	1412761	1412762	1412763	1412764	1412765
Order No.: 46934			Client Sample Ref.:		TP23	TP24	TP24	TP25	TP25	TP28	TP28	TP29	TP30
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.5	0.1	2.4	0.1	0.5	0.1	0.9	0.1	0.5
			Date Sampled:		12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
			Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0		< 2.0	< 2.0	8.5	< 2.0	< 2.0	< 2.0
Demeton-O	N	2820	mg/kg	0.20								< 0.20	
Phorate	N	2820	mg/kg	0.20								< 0.20	
Demeton-S	N	2820	mg/kg	0.20								< 0.20	
Disulfoton	N	2820	mg/kg	0.20								< 0.20	
Fenthion	N	2820	mg/kg	0.20								< 0.20	
Trichloronate	N	2820	mg/kg	0.20								< 0.20	
Prothiofos	N	2820	mg/kg	0.20								< 0.20	
Fensulphothion	N	2820	mg/kg	0.20								< 0.20	
Sulprofos	N	2820	mg/kg	0.20								< 0.20	
Azinphos-Methyl	N	2820	mg/kg	0.20								< 0.20	
Coumaphos	N	2820	mg/kg	0.20								< 0.20	
Alpha-HCH	N	2840	mg/kg	0.20								< 0.20	
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20								< 0.20	
Beta-HCH	N	2840	mg/kg	0.20								< 0.20	
Delta-HCH	N	2840	mg/kg	0.20								< 0.20	
Heptachlor	N	2840	mg/kg	0.20								< 0.20	
Aldrin	N	2840	mg/kg	0.20								< 0.20	
Heptachlor Epoxide	N	2840	mg/kg	0.20								< 0.20	
Gamma-Chlordane	N	2840	mg/kg	0.20								< 0.20	
Alpha-Chlordane	N	2840	mg/kg	0.20								< 0.20	
Endosulfan I	N	2840	mg/kg	0.20								< 0.20	
4,4-DDE	N	2840	mg/kg	0.20								< 0.20	
Dieldrin	N	2840	mg/kg	0.20								< 0.20	
Endrin	N	2840	mg/kg	0.20								< 0.20	
4,4-DDD	N	2840	mg/kg	0.20								< 0.20	
Endosulfan II	N	2840	mg/kg	0.20								< 0.20	
Endrin Aldehyde	N	2840	mg/kg	0.20								< 0.20	
4,4-DDT	N	2840	mg/kg	0.20								< 0.20	
Endosulfan Sulphate	N	2840	mg/kg	0.20								< 0.20	
Methoxychlor	N	2840	mg/kg	0.20								< 0.20	
Endrin Ketone	N	2840	mg/kg	0.20								< 0.20	

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412766	1412767	1412768	1412769	1412770	1412771	1412772
Order No.: 46934		Client Sample Ref.:			TP31	TP32	TP32	TP33	PIT A	PIT A	PIT B
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.1	0.1	0.4	0.6	0.1	0.8	1.5
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type	U	2192		N/A	-	-			-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	18	16	16	17	11	15	14
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Sand	Sand	Clay	Clay
pH	M	2010		4.0	8.5	8.3	8.6	8.7	8.5	8.5	8.3
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010			0.011	0.024	0.14	0.081	0.36
Total Sulphur	M	2175	%	0.010			0.014	< 0.010	0.053	0.036	0.18
Sulphate (Acid Soluble)	U	2430	%	0.010			< 0.010	< 0.010	0.047	0.020	0.11
Arsenic	M	2455	mg/kg	1.0	4.3	2.9	2.8	1.8	6.8	1.1	4.8
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	1.0	11	9.1	16	10	9.0	5.0	10
Copper	M	2455	mg/kg	0.50	5.2	4.3	7.8	4.8	7.6	4.2	7.9
Mercury	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2455	mg/kg	0.50	11	8.7	18	12	7.0	3.9	9.5
Lead	M	2455	mg/kg	0.50	6.0	5.3	7.3	4.1	9.6	5.3	5.7
Selenium	M	2455	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2455	mg/kg	0.50	20	17	29	18	21	10	22
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20						0.77	0.97
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.25	< 0.10	0.41
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10	< 0.10	0.16
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	< 0.10	0.46	0.10	1.0
Pyrene	M	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	< 0.10	0.39	< 0.10	0.95
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.23	< 0.10	0.40
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.23	< 0.10	0.34
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	< 0.10	0.46
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.17	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.24	< 0.10	0.31
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.17	< 0.10	0.25
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.23	< 0.10	0.29

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412766	1412767	1412768	1412769	1412770	1412771	1412772
Order No.: 46934		Client Sample Ref.:			TP31	TP32	TP32	TP33	PIT A	PIT A	PIT B
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.1	0.1	0.4	0.6	0.1	0.8	1.5
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.7	< 2.0	4.7
Demeton-O	N	2820	mg/kg	0.20							
Phorate	N	2820	mg/kg	0.20							
Demeton-S	N	2820	mg/kg	0.20							
Disulfoton	N	2820	mg/kg	0.20							
Fenthion	N	2820	mg/kg	0.20							
Trichloronate	N	2820	mg/kg	0.20							
Prothiofos	N	2820	mg/kg	0.20							
Fensulphothion	N	2820	mg/kg	0.20							
Sulprofos	N	2820	mg/kg	0.20							
Azinphos-Methyl	N	2820	mg/kg	0.20							
Coumaphos	N	2820	mg/kg	0.20							
Alpha-HCH	N	2840	mg/kg	0.20							
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20							
Beta-HCH	N	2840	mg/kg	0.20							
Delta-HCH	N	2840	mg/kg	0.20							
Heptachlor	N	2840	mg/kg	0.20							
Aldrin	N	2840	mg/kg	0.20							
Heptachlor Epoxide	N	2840	mg/kg	0.20							
Gamma-Chlordane	N	2840	mg/kg	0.20							
Alpha-Chlordane	N	2840	mg/kg	0.20							
Endosulfan I	N	2840	mg/kg	0.20							
4,4-DDE	N	2840	mg/kg	0.20							
Dieldrin	N	2840	mg/kg	0.20							
Endrin	N	2840	mg/kg	0.20							
4,4-DDD	N	2840	mg/kg	0.20							
Endosulfan II	N	2840	mg/kg	0.20							
Endrin Aldehyde	N	2840	mg/kg	0.20							
4,4-DDT	N	2840	mg/kg	0.20							
Endosulfan Sulphate	N	2840	mg/kg	0.20							
Methoxychlor	N	2840	mg/kg	0.20							
Endrin Ketone	N	2840	mg/kg	0.20							

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2820	Organophosphorus (O-P) Pesticides in Soils by GC-MS	Organophosphorus pesticide representative suite including Parathion, Malathion etc, plus client specific determinands	Dichloromethane extraction / GC-MS
2840	Organochlorine (O-Cl) Pesticides in Soils by GC-MS	Organochlorine pesticide representative suite including DDT and its metabolites, 'drins' and HCH etc, plus client specific determinands	Dichloromethane extraction / GC-MS

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-16401-1
Initial Date of Issue:	20-May-2022
Client	Eastwood & Partners
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS
Contact(s):	Daniel Nowell Geo
Project	DN/AJK/46934 Lincs Gateway, Spalding

Quotation No.:		**Date Received:**	04-May-2022
Order No.:	46934	**Date Instructed:**	04-May-2022
No. of Samples:	3		
Turnaround (Wkdays):	15	**Results Due:**	24-May-2022
Date Approved:	19-May-2022	**Subcon Results Due:**	25-May-2022

Approved By:



Details: Stuart Henderson, Technical Manager

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners			**Chemtest Job No.:**		22-16401	22-16401	22-16401
Quotation No.:			**Chemtest Sample ID.:**		1421874	1421875	1421876
			Sample Location:		TP3	TP19	TP31
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		0.30	0.10	0.10
			Date Sampled:		12-Apr-2022	12-Apr-2022	12-Apr-2022
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Pendimethalin	S		mg/kg	0.01	< 0.02	< 0.02	0.02

Report Information

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<	"less than"
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SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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B - Sample age exceeds stability time (sampling to extraction)
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D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

2531

ANALYTICAL TEST REPORT

Contract no:	109316
Contract name:	Lincs Gateway, Spalding
Client reference:	-
Clients name:	Professional Soils Laboratory
Clients address:	5/7 Hexthorpe Road Doncaster DN4 0AR
Samples received:	16 May 2022
Analysis started:	16 May 2022
Analysis completed:	23 May 2022
Report issued:	23 May 2022

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing

Approved by:

Megan Harris

Senior Reporting Administrator

Chemtech Environmental Limited

SOILS

Lab number			109316-1	109316-2	109316-3	109316-4	109316-5	109316-6
Sample id			CP1	CP2	CP3	CP4	CP5	CP5
Depth (m)			12.50	17.40	5.60	3.00	7.00	16.50
Sample Type			D	D	D	D	D	D
Date sampled			-	-	-	-	-	-
Test	Method	Units						
pH	CE004 U	units	8.4	8.5	7.3	8.1	8.0	8.4
Sulphate (2:1 water soluble)	CE061 U	mg/l SO_4	306	402	491	1122	1130	648
Sulphate (total)	CE062 U	mg/kg SO_4	924	1486	5877	2589	2190	1670

Chemtech Environmental Limited

SOILS

Lab number			109316-7	109316-8	109316-9	109316-10	109316-11	109316-12
Sample id			CP7	CP8	CP8	CP9	CP10	CP10
Depth (m)			7.50-7.80	3.00	17.20	4.25-4.70	7.00	7.70-8.20
Sample Type			D	D	D	D	D	D
Date sampled			-	-	-	-	-	-
Test	Method	Units						
pH	CE004 U	units	7.7	8.2	8.4	8.5	8.1	7.4
Sulphate (2:1 water soluble)	CE061 U	mg/l SO_4	1656	788	421	344	885	2946
Sulphate (total)	CE062 U	mg/kg SO_4	4795	1609	1286	2206	2180	7393

Chemtech Environmental Limited

SOILS

Lab number			109316-13	109316-14
Sample id			CP11	CP12
Depth (m)			10.80	19.50
Sample Type			D	D
Date sampled			-	-
Test	Method	Units		
pH	CE004 U	units	9.1	8.2
Sulphate (2:1 water soluble)	CE061 U	mg/l SO_4	272	698
Sulphate (total)	CE062 U	mg/kg SO_4	1334	2081

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE004	pH	Based on BS 1377, pH Meter	As received	U	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO_4
CE062	Sulphate (total)	Acid extraction, ICP-OES	Dry	U	100	mg/kg SO_4

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.
For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.
Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
109316-1	CP1	12.50	Y	All (NSD)
109316-2	CP2	17.40	Y	All (NSD)
109316-3	CP3	5.60	Y	All (NSD)
109316-4	CP4	3.00	Y	All (NSD)
109316-5	CP5	7.00	Y	All (NSD)
109316-6	CP5	16.50	Y	All (NSD)
109316-7	CP7	7.50-7.80	Y	All (NSD)
109316-8	CP8	3.00	Y	All (NSD)
109316-9	CP8	17.20	Y	All (NSD)
109316-10	CP9	4.25-4.70	Y	All (NSD)
109316-11	CP10	7.00	Y	All (NSD)
109316-12	CP10	7.70-8.20	Y	All (NSD)
109316-13	CP11	10.80	Y	All (NSD)
109316-14	CP12	19.50	Y	All (NSD)

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

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

Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones, where applicable.

Eastwood&Partners
CONSULTING ENGINEERS

SITE: Lincs Gateway, Spalding	Job No. 46934	Date 26/04/2022
SUBJECT: Dibenz[a,h]anthracene Mean and Maximum Value Test for Granular Made Ground	Prepared DN	Checked AJK

Results	Sample	Log x = y
3.90	TP20 0.1 m	0.591
0.19	TP21 0.1 m	-0.721
0.53	TP22 0.1 m	-0.276
0.13	TP28 0.1 m	-0.886
0.10	Pit A 0.1 m	-1.000

Number of results : n =	5
Mean : X =	0.97
Standard deviation : s =	1.65
T value : t =	2.132

Corrected mean (95% confidence)

= X + t * s / n^0.5 = 2.54

Max value =	3.90
log xm = ym =	0.591
Number of results : N =	5
Mean y =	-0.458
Standard deviation of y : S =	0.648
T = (ym-ya) / S =	1.619
Tcrit (fom table A1.3) =	1.6

Result probably an outlier

Contaminant	Intended Land Use				
	Commercial/Industrial End Use (mg/kg)				
	Human Health	Phytoxicity			
		pH 5.0-5.5	pH 5.5-6.0	pH 6.0-6.5	pH >7.0
Arsenic	640	50			
Cadmium	190	3			
Chromium (III)	8600	400			
Chromium (VI)	33	-			
Lead	1100-6000	300			
Mercury	25.8	1			
Nickel	980	50	60	75	110
Selenium	12,000				
Copper	68,000	80	100	135	200
Zinc	730,000	200	200	200	300

Notes:

The assessment concentrations for arsenic, cadmium, chromium (III), chromium (VI), copper, nickel, mercury, selenium and zinc are taken from Nathanail, C.P., McCaffrey, C., Gillett, A.G., Ogden, R.C., and Nathanail, J.F., 2015, 'The LQM/CIEH S4ULs for Human Health Risk Assessment', Land Quality Press, Nottingham. These are also all based on a sandy loam soil and 6% soil organic matter.

The assessment concentration for lead is the Category 4 Screening Level produced by Contaminated Land; Applications in Real Environments (CL:AIRE) and outlined in Appendix H of their report SP1010.

The threshold value is not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. The modified mean value should instead be compared with the threshold value.

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

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Prepared	DN	Checked	AJK	Date	28/04/2022	Job No	46934

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LINCS GATEWAY, SPALDING

ALCOR PROPERTIES LIMITED

ASSESSMENT CRITERIA – COMMERCIAL / INDUSTRIAL

Organic Compounds	Intended Land Use Commercial (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	190 (76.4)[sol]	460 (183) [sol]	1100 (432) [sol]
Acenaphthene	84000 (57.0) [sol]	97000 (141) [sol]	100000
Acenaphthylene	83000 (86.1) [sol]	97000 (212) [sol]	100000
Fluorene	63000 (30.9) [sol]	68000	71000
Phenanthrene	22000	22000	23000
Anthracene	520000	540000	540000
Fluoranthene	23000	23000	23000
Pyrene	54000	54000	54000
Benzo(a)anthracene	170	170	180
Chrysene	350	350	350
Benzo(b)fluoranthene	44	44	45
Benzo(k)fluoranthene	1200	1200	1200
Benzo(a)pyrene	35	35	36
Dibenz(a,h)anthracene	3.5	3.6	3.6
Indeno(1,2,3-cd)pyrene	500	510	510
Benzo(g,h,i)perylene	3900	4000	4000
Phenol	760	1500	3200
Benzene	27	47	90
Toluene	56000 (869)[vap]	110000 (1920)[vap]	180000 (4360)[vap]
Ethylbenzene	5700 (518) [vap]	13000 (1220) [vap]	27000 (2840) [vap]
o-Xylene	6600 (478) [sol]	15000 (1120) [sol]	33000 (2620) [sol]
m-Xylene	6200 (625) [vap]	14000 (1470) [vap]	31000 (3460) [vap]
p-Xylene	5900 (576) [sol]	14000 (1350) [sol]	30000 (3170) [sol]

[sol] = S4ULs presented exceeds the solubility saturation limit, which is presented in brackets.

[vap] = S4ULs presented exceeds the vapour saturation limit, which is presented in brackets.

The assessment criteria for the sixteen polycyclic aromatic hydrocarbon (PAH) species covered under the USEPA test have been taken from Nathanail, C.P., McCaffrey, C., Gillett, A.G., Ogden, R.C., and Nathanail, J.F., 2015, 'The LQM/CIEH S4ULs for Human Health Risk Assessment', Land Quality Press, Nottingham.. These are also all based on a sandy loam soil and 6% soil organic matter. This is also the case for phenol at 1% and 2.5% SOM. These are also all based on a sandy loam soil.

The assessment values for phenol (6% SOM) and the BTEX compounds are the Soil Guideline Values derived by DEFRA and Environment Agency using the '*Contaminated Land Exposure Assessment'* model. These are outlined in the Environment Agency's Science Report series SC050021.

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Prepared	DN	Checked	AJK	Date	28/04/2022	Job No	46934

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LINCS GATEWAY, SPALDING

ALCOR PROPERTIES LIMITED

ASSESSMENT CRITERIA – COMMERCIAL / INDUSTRIAL

TPH Fraction	Intended Land Use Commercial (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Aliphatic EC 5-6	3200 (304)[sol]	5900 (558)[sol]	12000 (1150)[sol]
Aliphatic EC >6-8	7800 (144)[sol]	17000 (322)[sol]	40000 (736)[sol]
Aliphatic EC >8-10	2000 (78)[sol]	4800 (190)[vap]	11000 (451)[vap]
Aliphatic EC >10-12	9700 (48)[sol]	23000 (118)[vap]	47000 (283)[vap]
Aliphatic EC >12-16	59000 (24)[sol]	82000 (59)[sol]	90000 (142)[sol]
Aliphatic EC >16-35	1,600,000	1,700,000	1,800,000
Aliphatic EC >35-44	1,600,000	1,700,000	1,800,000
Aromatic EC 5-7 (benzene)	26000 (1220)[sol]	46000 (2260)[sol]	86000 (4710)[sol]
Aromatic EC >7-8 (toluene)	56000 (869)[vap]	110000 (1920) [sol]	180000 (4360)[vap]
Aromatic EC>8-10	3500 (613)[vap]	8100 (1500)[vap]	17000 (3580)[vap]
Aromatic EC >10-12	16000 (364)[sol]	28000 (899)[sol]	34000 (2150)[sol]
Aromatic EC >12-16	36000 (169)[sol]	37000	38000
Aromatic EC >16-21	28000	28000	28000
Aromatic EC >21-35	28000	28000	28000
Aromatic EC >35-44	28000	28000	28000
Aliphatic + Aromatic EC >44-70	28000	28000	28000

[sol] = S4ULs presented exceeds the solubility saturation limit, which is presented in brackets.
[vap] = S4ULs presented exceeds the vapour saturation limit, which is presented in brackets.

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

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

Where only a TPH screen is undertaken, the assessment value used should be taken as the most onerous value given for individual carbon bands, as described above. This should be the assessment for Aliphatic band EC>8-10, assuming a SOM value of 1%. The assessment value should therefore be taken as 2,100 mg/kg.

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Prepared	DN	Checked	AJK	Date	28/04/2022	Job No	46934

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LINCS GATEWAY, SPALDING

ALCOR PROPERTIES LIMITED

ASSESSMENT CRITERIA – COMMERCIAL / INDUSTRIAL

Appendix 6

Gas Monitoring Results

Table of Atmospheric Pressures

Monitoring Date 05.05.2022 RG	CH_4 %	CO_2 %	O_2 %	LEL	H_2S	CO	Atmos P. (mb)	Flow (l/hr)	Water Level (m bgl)	Base of Pipe (m bgl)
CP1	0.0	0.6	20.6	0.0	0	1	1021	*(p)* -10.0, *(s)* -0.3	1.00	12.14
CP2	0.0	2.0	19.2	0.0	0	1	1021	0.0	1.10	4.80
CP3	0.0	2.3	19.1	0.0	0	0	1021	0.0	1.30	4.88
CP4	0.0	0.3	20.9	0.0	0	0	1021	0.0	0.90	10.47
CP5	0.0	1.3	18.3	0.0	0	0	1021	0.0	1.61	3.68
CP6	2.0	1.9	19.1	45.7	0	0	1022	*(p)* -5.0, *(s)* -0.7*	1.10	5.00
CP7	0.0	0.6	20.7	0.0	0	0	1022	*(p)* -4.5, *(s)* 0.0	1.05	4.95
CP8	0.0	0.9	19.0	0.0	0	0	1021	0.0	1.40	5.30
CP9	0.0	1.8	16.3	0.0	0	0	1021	0.0	1.33	4.15
CP10	0.0	0.4	20.4	0.0	0	0	1020	0.0	0.98	11.53
CP11	0.0	1.7	16.8	0.0	0	0	1019	0.0	1.66	4.80
CP12	0.0	0.6	20.4	0.0	0	0	1018	0.0	1.12	9.52
WS2	0.0	2.2	18.5	0.0	0	0	1018	0.0	-	-

(p) = Peak – flow sometimes peaked negative on opening valve before settling, (s) = Steady
**CP6 made an audible 'inhale' after monitor tube removed from bung.*

Monitoring Date 19.05.2022 DJ	CH_4 %	CO_2 %	O_2 %	LEL	H_2S	CO	Atmos P. (mb)	Flow (l/hr)	Water Level (m bgl)	Base of Pipe (m bgl)
CP1	0.0	0.7	20.0	0.0	0	0	1020	0.0	1.07	12.22
CP2	0.0	0.8	19.7	0.0	0	0	1020	0.0	1.25	4.79
CP3	0.0	2.3	18.5	0.0	0	0	1020	0.0	1.50	4.94
CP4	0.0	0.0	20.6	0.0	0	0	1020	0.0	1.13	10.52
CP5	0.0	2.6	16.4	0.0	0	0	1020	0.0	2.04	3.78
CP6	0.0	0.9	19.2	0.0	0	0	1020	0.0	1.42	5.06
CP7	0.0	1.1	19.9	0.0	0	0	1020	0.0	1.18	4.97
CP8	0.0	0.7	19.8	0.0	0	0	1020	0.0	1.50	5.07
CP9	0.0	5.3	12.2	0.0	0	0	1020	0.0	1.52	4.13
CP10	0.0	0.6	20.2	0.0	0	0	1020	0.0	1.14	10.41
CP11	0.0	3.3	16.7	0.0	0	0	1020	0.0	2.00	4.87
CP12	0.0	0.5	20.1	0.0	0	0	1020	0.0	1.49	9.47

Monitoring Date 27.06.2022 DJ	CH_4 %	CO_2 %	O_2 %	LEL	H_2S	CO	Atmos P. (mb)	Flow (l/hr)	Water Level (m bgl)	Base of Pipe (m bgl)
CP1	0.0	0.0	20.5	0.0	0	0	1015	0.0	1.40	11.77
CP2	0.0	4.9	17.0	0.0	0	0	1015	0.0	1.55	4.72
CP3	0.0	0.6	20.1	0.0	0	0	1015	0.0	1.77	4.91
CP4	0.0	0.1	20.5	0.0	0	0	1015	0.0	1.38	10.58
CP5	0.0	3.8	17.3	0.0	0	0	1015	0.0	2.73	3.62
CP6	0.0	3.0	18.8	0.0	0	0	1015	0.0	1.63	5.03
CP7	0.0	1.8	19.4	0.0	0	0	1015	0.6	1.28	4.95
CP8	0.0	0.5	20.1	0.0	0	0	1015	0.0	1.75	5.02
CP9	0.0	8.0	7.4	0.0	0	0	1015	0.0	1.53	4.16
CP10	0.0	0.5	20.1	0.0	0	0	1015	0.0	1.51	11.67
CP11	0.0	4.8	17.5	0.0	0	0	1015	0.0	2.58	4.83
CP12	0.0	0.1	20.2	0.0	0	0	1015	0.0	2.22	9.47

Monitoring Date 13.01.2022 RG	CH_4 %	CO_2 %	O_2 %	LEL	H_2S	CO	Atmos P. (mb)	Flow (l/hr)	Water Level (m bgl)	Base of Pipe (m bgl)
CP1	0.0	0.3	20.6	0.0	0	0	1018	0.0	1.46	12.00
CP2	0.0	3.4	18.3	0.0	0	0	1018	0.0	1.65	4.59
CP3	0.0	0.2	20.7	0.0	0	0	1020	0.0	2.30	4.80
CP4	0.0	0.1	20.8	0.0	0	0	1020	0.0	1.28	10.29
CP5	0.0	2.5	18.7	0.0	0	0	1020	0.0	2.64	3.59
CP6	0.0	4.3	17.6	0.0	0	0	1020	0.0	1.65	4.97
CP7	0.0	1.9	19.2	0.0	0	0	1020	0.0	1.54	4.89
CP8	0.0	1.8	19.0	0.0	0	0	1020	0.0	1.87	4.98
CP9	0.0	9.5	5.7	0.0	0	0	1020	0.0	1.55	4.13
CP10	0.0	0.6	20.1	0.0	0	0	1019	0.0	1.60	11.65
CP11	0.0	4.1	18.3	0.0	0	0	1019	0.0	2.77	4.76
CP12	0.0	0.2	20.5	0.0	0	0	1019	0.0	2.41	9.27

Eastwood & Partners CONSULTING ENGINEERS	**LINCS GATEWAY, SPALDING** **ALCAN CONSTRUCTION LTD** **GAS & GROUNDWATER MONITORING RESULTS**	**JOB NO.** **DATE**	46934 May 2022 – TBC	Concentration equivalent to CS2 Concentration equivalent to CS3

Date	Atmospheric Pressure (mb)	Atmospheric Trend	Relative Humidity (%)	Temp (ºC)	Weather
07.05.22	1027	-	65	17	Cloud/sun
08.05.22	1029	Rising	61	19	Cloud/sun
09.05.22	1026	Falling	61	19	Cloud/sun
10.05.22	1024	Falling	60	21	Cloud/sun
11.05.22	1021	Falling	55	22	Sunny
12.05.22	1020	Falling	54	22	Cloud/sun
13.05.22	1016	Falling	52	24	Cloud/sun
14.05.22	1021	Rising	58	21	Sunny
15.05.22	1017	Falling	72	17	Cloud/rain
16.05.22	1013	Falling	72	17	Cloudy
17.05.22	1019	Rising	62	22	Cloud/sun
18.05.22	1017	Falling	64	21	Cloud/rain
19.05.22	1020	Rising	62	21	Cloud/sun
20.05.22	1016	Falling	63	20	Cloud/sun
21.05.22	1020	Rising	60	19	Cloud/sun
22.05.22	1016	Falling	64	20	Cloudy
23.05.22	1003	Falling	72	17	Cloud/sun/rain
24.05.22	1005	Rising	66	17	Cloudy
25.05.22	1004	Falling	67	18	Cloud/sun
26.05.22	1019	Rising	63	18	Cloud/sun
27.05.22	1027	Rising	62	19	Cloud/sun
28.05.22	1026	Falling	61	15	Cloud/sun
29.05.22	1020	Falling	71	11	Cloudy
30.05.22	1011	Falling	71	13	Cloud/sun/rain
31.05.22	1011	Steady	64	16	Cloudy
01.06.22	1015	Rising	69	17	Cloud/rain
02.06.22	1023	Rising	70	18	Cloud/rain
03.06.22	1020	Falling	67	18	Cloud/rain
04.06.22	1022	Rising	69	15	Cloud/sun
05.06.22	1018	Falling	74	15	Cloud/rain
06.06.22	1015	Falling	73	16	Cloudy
07.06.22	1017	Rising	66	18	Cloud/sun
08.06.22	1020	Rising	64	20	Cloud/sun
09.06.22	1017	Falling	64	21	Cloud/sun
10.06.22	1010	Falling	65	21	Cloud/sun
11.06.22	1020	Rising	58	21	Sunny
12.06.22	1022	Rising	61	20	Cloud/sun
13.06.22	1023	Rising	63	19	Cloud/sun
14.06.22	1021	Falling	60	21	Cloud/sun
15.06.22	1017	Falling	65	20	Cloud/sun
16.06.22	1021	Rising	68	20	Cloud/sun
17.06.22	1023	Rising	63	21	Cloud/sun
18.06.22	1019	Falling	73	18	Cloud/rain
19.06.22	1016	Falling	73	15	Cloud/rain
20.06.22	1022	Rising	62	19	Cloud/sun
21.06.22	1009	Falling	65	21	Cloud/sun

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LINCS GATEWAY, SPALDING

ATMOSPHERIC CONDITIONS

22.06.22	1001	Falling	68	19	Cloud/sun
23.06.22	1009	Rising	65	18	Cloud/sun
24.06.22	1009	Steady	67	19	Cloud/sun
25.06.22	1007	Falling	47	22	Cloud/sun
26.06.22	1010	Rising	49	21	Sunny
27.06.22	1015	Rising	50	22	Sunny
28.06.22	1014	Falling	55	21	Cloud/sun
29.06.22	1014	Steady	56	22	Cloud/sun
30.06.22	1007	Falling	62	22	Cloud/sun/rain
01.07.22	1012	Rising	64	21	Cloud/sun/rain
02.07.22	1017	Rising	64	20	Cloud/sun
03.07.22	1019	Rising	61	20	Cloud/sun
04.07.22	1022	Rising	59	20	Cloud/sun
05.07.22	1026	Rising	60	21	Cloud/sun
06.07.22	1029	Rising	61	21	Cloudy
07.07.22	1029	Steady	63	22	Cloud/sun
08.07.22	1030	Rising	62	23	Cloud/sun
09.07.22	1030	Steady	54	21	Cloud/sun
10.07.22	1027	Falling	51	25	Sun
11.07.22	1023	Falling	46	29	Sun
12.07.22	1022	Falling	46	29	Cloud/sun
13.07.22	1024	Rising	46	24	Sunny
14.07.22	1023	Falling	46	23	Cloud/sun
15.07.22	1023	Steady	50	24	Cloud/sun
16.07.22	1027	Rising	50	23	Cloud/sun
17.07.22	1027	Steady	39	30	Sunny
18.07.22	1021	Falling	34	35	Sunny
19.07.22	1016	Falling	33	35	Sunny
20.07.22	1011	Falling	54	27	Cloud/sun/rain
21.07.22	1018	Rising	63	22	Cloud/sun
22.07.22	1024	Rising	64	22	Cloudy

Taken from BBC Weather website and weatheronline.co.uk
Highlighted rows denote gas monitoring visits.