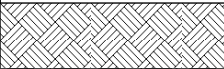
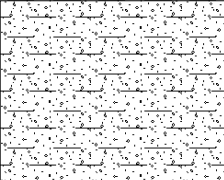
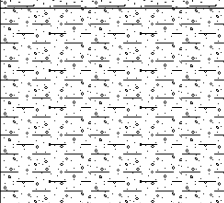
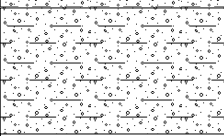


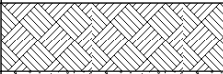
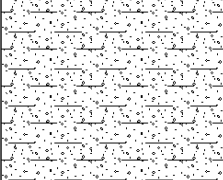
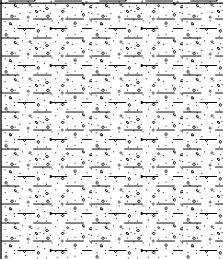
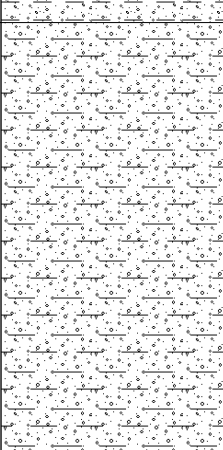


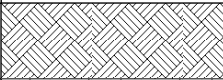

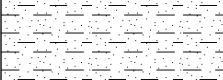
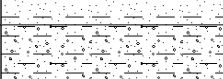
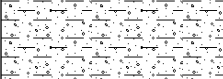
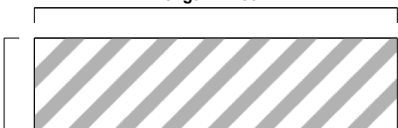

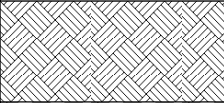
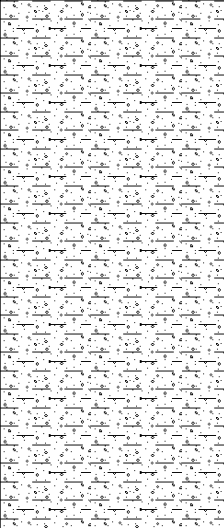
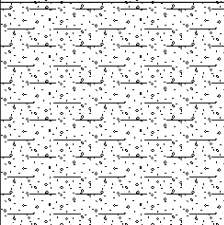


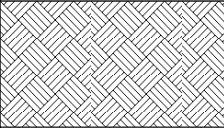
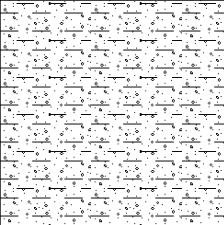
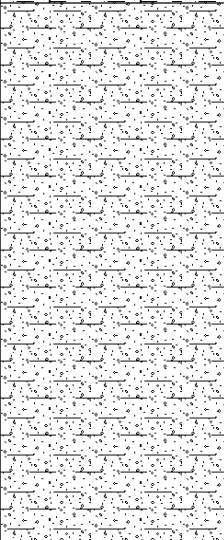


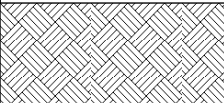
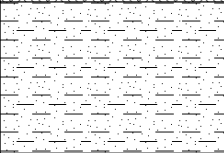
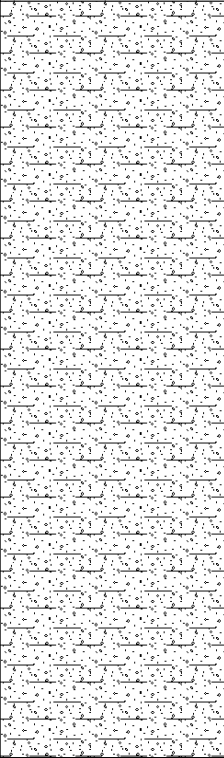


 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP102		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 11/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown slightly clayey fine to medium sand.		0.26	53.54		0.26 - 1.00	B 1		
Brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is subrounded fine to coarse of natural lithologies. [DEVENSIAN TILL]		1.00	52.80					
Brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded fine to coarse of natural lithologies. [DEVENSIAN TILL]		1.80	52.00					
Brown slightly clayey sandy subrounded fine to coarse GRAVEL of natural lithologies. Very frequent cobbles. [DEVENSIAN TILL]		2.30	51.50					
Trial pit complete at 2.30 m bgl.					2.30	B 2		
Dimensions and Orientation: <div> <div>Length = 3.30 m</div> <div>Width = 0.50 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance with BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.3 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373623.00 N436222.00		Elevation (mAOD): 53.80		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: RR Checked: MB Approved: RJS Scale: 1:30


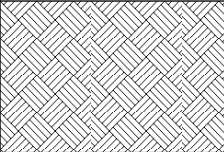
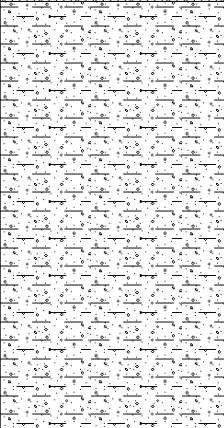
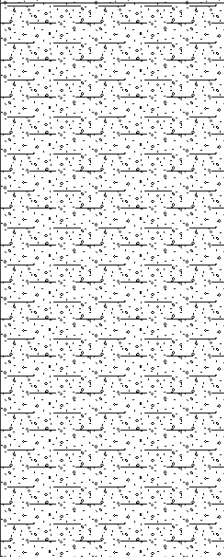

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP103		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 11/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown slightly clayey slightly gravelly fine to medium sand. Gravel is subrounded fine to coarse of natural lithologies.		0.27	53.98		2.00 - 3.00	B 1	2.00	HV=101 kPa
Orangish brown slightly clayey gravelly fine to coarse SAND. Gravel is subrounded fine to coarse of natural lithologies. Frequent cobbles. [DEVENSIAN TILL]		1.00	53.25					
Soft to firm dark brown slightly sandy gravelly CLAY. Sand is fine to medium. Gravel is subrounded fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]		2.10	52.15					
Dark brown slightly clayey sandy subrounded to subangular fine to coarse GRAVEL of mudstone and other natural lithologies. Very frequent cobbles. [DEVENSIAN TILL]		3.80	50.45					
Trial pit complete at 3.80 m bgl.								
Dimensions and Orientation: <div> <div>Length = 3.10 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.8 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373599.16 N436279.98	Elevation (mAOD): 54.25	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: RR	Checked: MB	Approved: RJS	Scale: 1:30


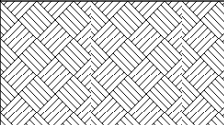
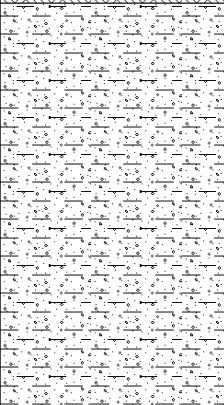
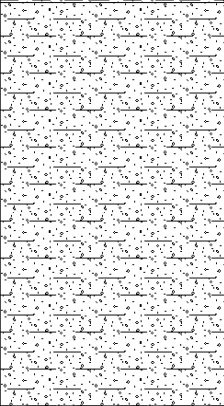
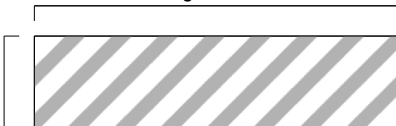
 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP104		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 12/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown sandy clay. Sand is fine to coarse.		0.30	54.49		2.60 - 3.60	B 1		
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIA TILL]		0.80	53.99					
Orangish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone and other natural lithologies. [DEVENSIA TILL]		1.50	53.29					
Orangish brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse of natural lithologies. [DEVENSIA TILL]		2.60	52.19					
Trial pit complete at 2.60 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.30 m</div> <div>Width = 0.50 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 2.6 m during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.6 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373625.60 N436269.42	Elevation (mAOD): 54.79	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: RR	Checked: MB	Approved: RJS	Scale: 1:30


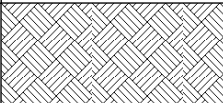
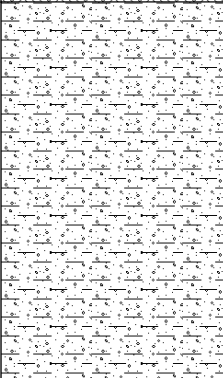
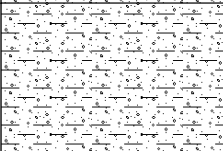
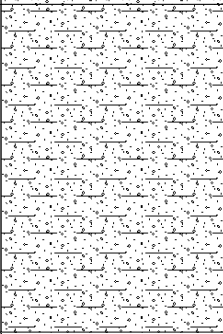
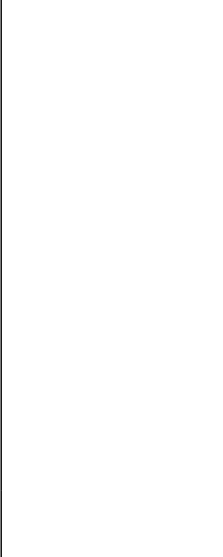

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		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 11/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey fine to coarse sand.		0.40	55.58		1.00 - 2.50	B 1		
Soft to firm orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone, shale and other natural lithologies. [DEVENSIAN TILL]		2.50	53.48					
Orangish brown very clayey slightly gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse of mudstone, shale and other natural lithologies. [DEVENSIAN TILL]		3.40	52.58					
Trial pit complete at 3.40 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.50 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.4 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373663.77 N436275.24	Elevation (mAOD): 55.98	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30



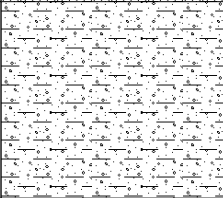
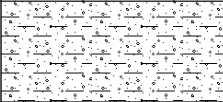
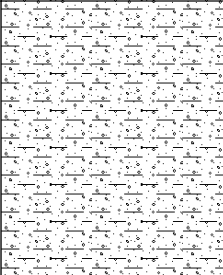
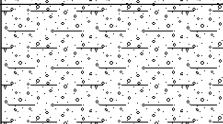

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		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 12/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey fine to coarse sand.		0.50	55.07		2.00 - 2.10	B 1		
Firm orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]		1.40	54.17					
Orangish brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is subrounded fine coarse of mudstone and other natural lithologies. Occasional pockets of orange and black fine to medium sand. [DEVENSIAN TILL]		3.60	51.97					
Trial pit complete at 3.60 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.50 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.6 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373678.54 N436214.60	Elevation (mAOD): 55.57	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30


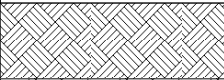

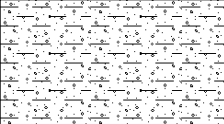
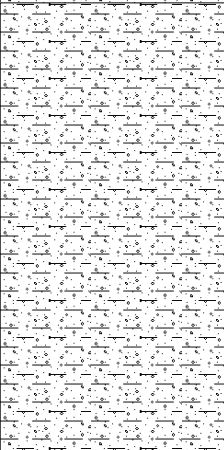
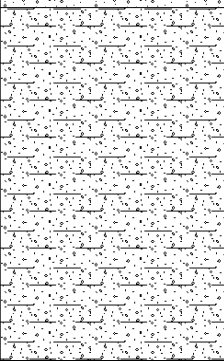

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP107		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 12/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey fine to coarse sand.		0.40	55.12		1.00 - 4.00	B 1		
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		1.00	54.52					
Orangish brown clayey gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse of natural lithologies. [DEVENSIAN TILL]		4.00	51.52					
Brown sandy subrounded fine to coarse GRAVEL of natural lithologies. Sand is fine to coarse. [DEVENSIAN TILL]		4.10	51.42					
Trial pit complete at 4.10 m bgl.								
Dimensions and Orientation: <div> <div>Length = 5.00 m</div> <div>Width = 0.70 m</div>  </div>				Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 4.0 m during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 4.1 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.		
Coordinates: E373660.03 N436243.40	Elevation (mAOD): 55.52	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30


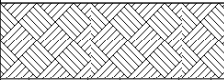

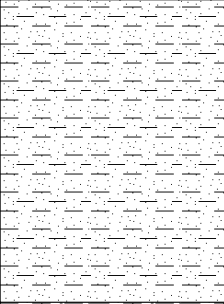
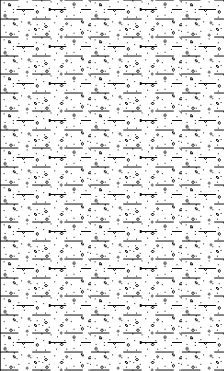
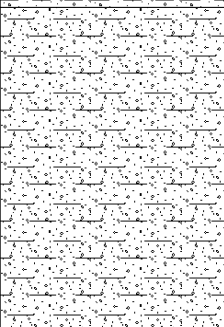

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		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 12/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey fine to coarse sand.		0.60	57.34					
Orangish brown clayey silty fine to coarse SAND. [DEVENSIAN TILL]					1.20 - 1.30	B 1		
					1.50 - 2.30	B 2		
Orangish brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is subrounded fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]		2.30	55.64					
					3.30 - 3.40	B 3		
		4.50	53.44					
Trial pit complete at 4.50 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.80 m</div> <div>Width = 0.70 m</div>  </div>				Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 4.5 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.		
Coordinates: E373707.75 N436241.96		Elevation (mAOD): 57.94		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: MB Checked: RR Approved: RJS Scale: 1:30


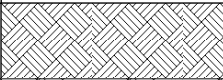
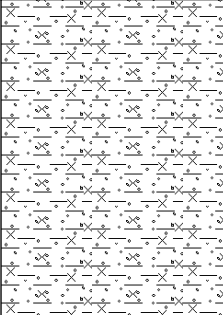
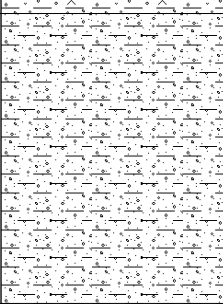

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP109		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 11/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey fine to coarse sand.		0.50	54.90		0.50 - 2.00	B 1		
Orangish brown sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone, shale and other natural lithologies. [DEVENSIAN TILL]		2.10	53.30					
Brown clayey gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse of mudstone, shale and other natural lithologies. [DEVENSIAN TILL]		3.70	51.70					
Trial pit complete at 3.70 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.50 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.7 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373645.06 N436292.25	Elevation (mAOD): 55.40	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30




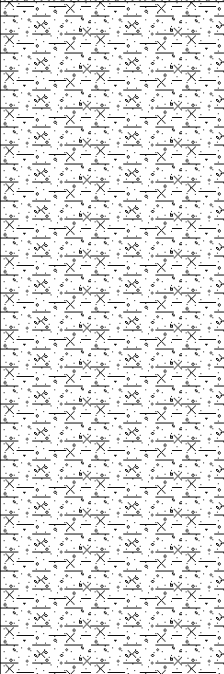
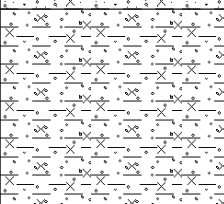

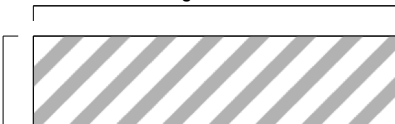
 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>			Project No: 18-0886.03		Hole ID: TP110		Page: 1 of 1				
Trial Pit Log			Date: 11/07/2018		Client: Trafford Housing Trust						
Description of Strata			Legend		Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details Depth (m) Type Ref	Test Details Depth (m) Results		
TOPSOIL: Brown clayey fine to coarse sand.					0.40	57.33					
Firm orange and grey mottled slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]					1.90	55.83	1.90	1.00 - 1.90 B 1			
Soft orangish grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone, shale and other natural lithologies. [DEVENSIAN TILL]					2.50	55.23		2.00 - 2.50 B 2			
Brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is subrounded fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]					3.80	53.93		2.50 - 3.80 B 3			
Trial pit complete at 3.80 m bgl.											
Dimensions and Orientation: <div> Length = 4.40 m </div> <div> Width = 0.70 m </div>  <div> Orientation: </div> <div> Inclination: </div>					Remarks: <ol style="list-style-type: none"> Engineer verified logged in general accordance to BS 5930:2015. Area cleared for services prior to excavations. Groundwater was encountered at 1.9 during excavation. No visual or olfactory evidence of contamination was encountered. Hole terminated at 3.8 m due to instability. Hole backfilled with arisings in reverse order of excavation. 						
Coordinates: E373703.11 N436290.52		Elevation (mAOD): 57.73		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30


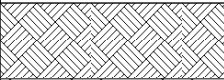

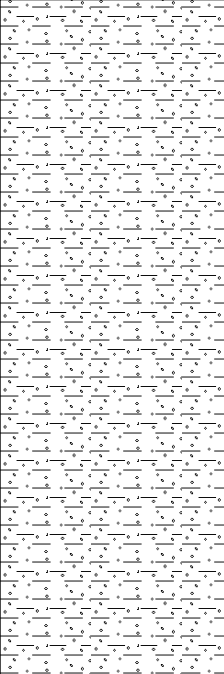
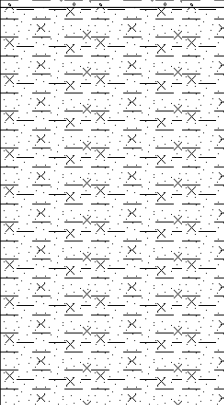

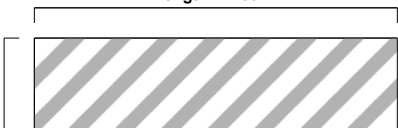
 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP111		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 11/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Brown slightly clayey fine to medium sand.		0.22	54.80		1.00 - 1.40	B 1		
Light brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of natural lithologies. Frequent cobbles. [DEVENSIAN TILL]		1.00	54.02					
Soft to firm brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]		1.40	53.62					
Soft to firm dark brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of mudstone and other natural lithologies. [DEVENSIAN TILL]		2.50	52.52					
Dark brown slightly clayey sandy subrounded to subangular fine to coarse GRAVEL of mudstone and other natural lithologies. [DEVENSIAN TILL]		3.00	52.02					
Trial pit complete at 3.00 m bgl.								
Dimensions and Orientation: <div> <div>Length = 3.40 m</div> <div>Width = 0.60 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.0 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373612.75 N436342.00	Elevation (mAOD): 55.02	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: RR	Checked: MB	Approved: RJS	Scale: 1:30


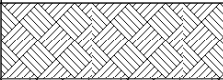
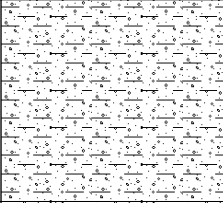
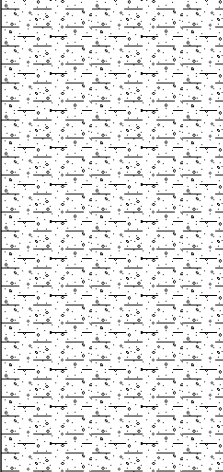

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP112		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 12/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey fine to coarse SAND.		0.30	55.84		1.50 - 2.50	B 1		
Orangish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded mudstone, shale and sandstone. Occasional coal gravel. [DEVENSIAN TILL]		0.80	55.34					
Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular sandstone and mudstone. [DEVENSIAN TILL]		2.60	53.54					
Orangish brown slightly clayey gravelly fine to coarse SAND. Gravel is fine to coarse subangular to subrounded shale and mudstone. [DEVENSIAN TILL]		4.00	52.14					
Trial pit complete at 4.00 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.50 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 1.2 m bgl during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 4.0 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373664.32 N436324.86	Elevation (mAOD): 56.14	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30


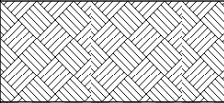

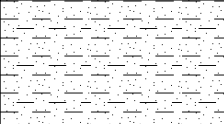
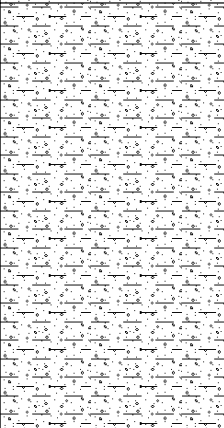
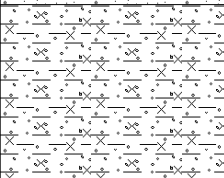
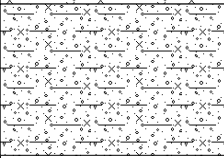

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP113		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 12/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey fine to coarse SAND.		0.30	57.79		0.80 - 0.90	B 1		
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		1.50	56.59					
Greyish orangish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded sandstone, shale and mudstone. Frequent sandstone cobbles. [DEVENSIAN TILL]		3.00	55.09		2.00 - 3.00	B 2		
Orangish brown clayey slightly gravelly fine to coarse SAND. Gravel is fine to coarse subrounded to subangular of sandstone and mudstone. [DEVENSIAN TILL]		4.30	53.79					
Trial pit complete at 4.30 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.50 m</div> <div>Width = 0.70 m</div>  </div>				Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 1.5 m during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 4.3 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.'		
Coordinates: E373709.04 N436335.77		Elevation (mAOD): 58.09		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: MB Checked: RR Approved: RJS Scale: 1:30



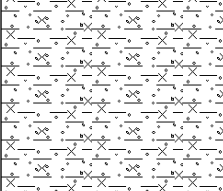
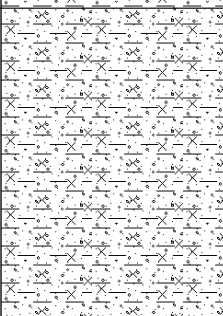
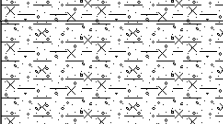
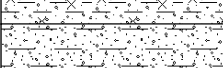

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP118		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 10/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grey brown slightly silty clayey fine to medium SAND with numerous rootlets and rare gravel of subrounded quartzite.		0.30	69.26		0.70	B 1	1.30	HV=62 kPa
Stiff orange brown slightly gravelly silty CLAY with occasional orange fine to medium sand partings. Gravel is fine to medium subangular to subrounded quartzite and sandstone. Rare cobbles of sandstone. [DEVENSIAN TILL]		1.60	67.96					
At 1.2 m: Becomes firm and dark grey.								
Dark grey slightly sandy gravelly CLAY. Sand is fine. Gravel is subangular to subrounded fine to coarse sandstone and siltstone. Occasional subrounded cobbles of sandstone. [DEVENSIAN TILL]		2.75	66.81					
Trial pit complete at 2.75 m bgl.								
Dimensions and Orientation: <div> <div>Length = 3.50 m</div> <div>Width = 0.60 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.75 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373894.46 N436412.43	Elevation (mAOD): 69.56	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: RR	Checked: MB	Approved: RJS	Scale: 1:30


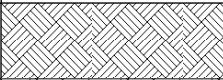
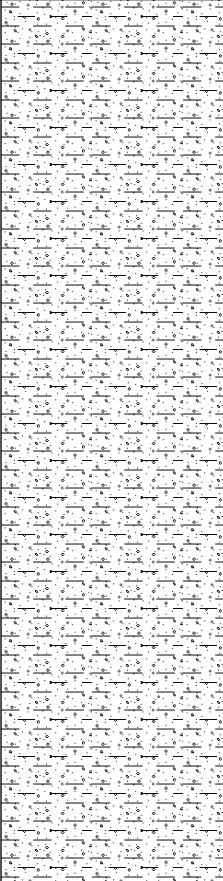

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP119		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 12/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over sandy CLAY.		0.20	66.79		2.00 - 2.90	B 1	2.50	HV=49 kPa
Firm greyish brown slightly silty slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded mudstone and sandstone. [DEVENSIAN TILL]		2.90	64.09					
Soft to firm grey slightly silty gravelly CLAY. Gravel is fine to coarse subrounded mudstone and sandstone. Occasional rounded mudstone cobbles and boulders. [DEVENSIAN TILL]		3.70	63.29		3.00 - 3.70	B 2	3.50	HV=52 kPa
Trial pit complete at 3.70 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.60 m</div> <div>Width = 0.70 m</div>  </div>				Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 1.6 m during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.7 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.		
Coordinates: E373844.21 N436424.98		Elevation (mAOD): 66.99		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: MB Checked: RR Approved: RJS Scale: 1:30


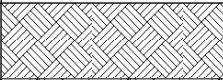

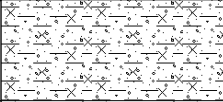
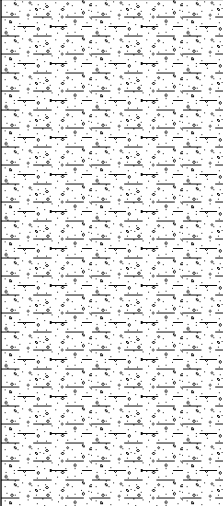
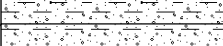

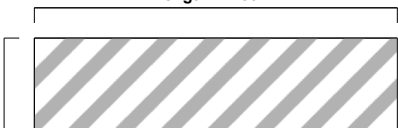
 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP120		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 10/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to medium subangular to subrounded sandstone.		0.30	64.87				2.00	HV=50 kPa
Firm orangish brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded sandstone and mudstone. [DEVENSIAN TILL]		3.00	62.17					
Soft to firm grey slightly silty slightly sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		4.60	60.57					
Trial pit complete at 4.60 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.60 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 2.0 m bgl during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 4.6 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373811.58 N436466.16	Elevation (mAOD): 65.17	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30


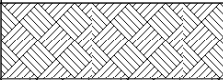

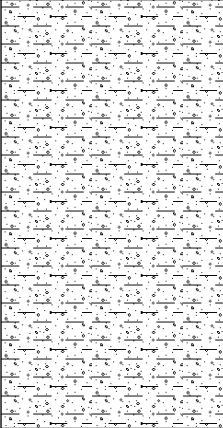
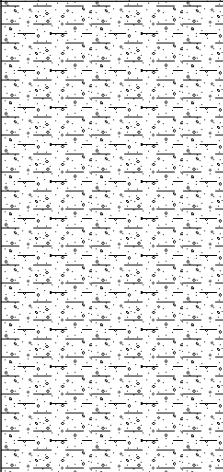

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP122		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 12/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown sandy CLAY. Sand is fine to coarse.		0.30	66.06					
Brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded sandstone and mudstone. [DEVENSIAN TILL]		1.10	65.26					
Firm to stiff brownish grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded sandstone and mudstone. Frequent cobbles and boulders. [DEVENSIAN TILL]					1.80	B 1	1.80	HV=107 kPa
		3.00	63.36	3.00	3.00	B 2		
Trial pit complete at 3.00 m bgl.								
Dimensions and Orientation: <div> <div>Length = 3.10 m</div> <div>Width = 0.80 m</div>  </div>				Orientation: Inclination:				
				Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater encountered at 3.0 m during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.0 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373859.57 N436445.11		Elevation (mAOD): 66.36		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: MB Checked: RR Approved: RJS Scale: 1:30

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP123		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 12/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown sandy CLAY. Sand is fine to coarse.		0.40	69.30		1.90	B 1	2.60	HV=96 kPa
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		0.90	68.80					
Soft dark brown slightly silty slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded sandstone and mudstone. [DEVENSIAN TILL]		2.60	67.10					
Firm to stiff grey slightly silty gravelly CLAY. Gravel is fine to coarse subangular sandstone and mudstone. [DEVENSIAN TILL]		3.30	66.40					
Brown slightly silty slightly sandy clayey GRAVEL. Gravel is fine to coarse subrounded sandstone and mudstone. [DEVENSIAN TILL]		3.90	65.80					
Trial pit complete at 3.90 m bgl.								
Dimensions and Orientation: <div> <div>Length = 3.30 m</div> <div>Width = 0.50 m</div>  </div>				Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 3.3 m during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.9 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.		
Coordinates: E373896.76 N436438.62		Elevation (mAOD): 69.70		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: MB Checked: RR Approved: RJS Scale: 1:30


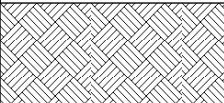

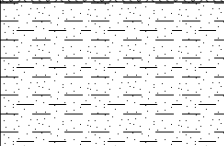
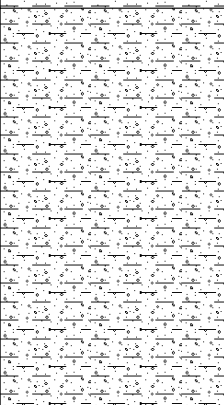

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP124		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 10/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
<p>TOPSOIL: Grey brown slightly gravelly silty sandy CLAY with numerous fine rootlets. Sand is fine to medium. Gravel is subangular to subrounded fine quartzite and sandstone.</p> <p>Stiff orange brown and grey slightly gravelly slightly sandy silty CLAY. Sand is fine. Gravel is fine to medium subrounded to rounded shale. [DEVENSIAN TILL]</p>		0.20	68.14		1.40	B 1		
		1.00	67.34					
<p>Firm to stiff orange brown and grey clayey slightly sandy slightly gravelly SILT with occasional orange fine to medium sand partings. Sand is fine. Gravel is fine to medium subangular to subrounded sandstone and quartzite. Rare rounded quartzite cobbles. [DEVENSIAN TILL]</p>		2.30	66.04					
<p>Stiff to very stiff grey brown slightly gravelly slightly sandy very silty CLAY. Sand is fine. Gravel is fine to coarse subangular to subrounded sandstone. Rare orange fine to medium sand partings and bands of grey silt. [DEVENSIAN TILL]</p>		2.80	65.54					
<p>Wet orange and greyish brown clayey gravelly fine to coarse SAND. Gravel is subangular to rounded quartzite and sandstone. [DEVENSIAN TILL]</p> <p>Trial pit complete at 3.00 m bgl.</p>		3.00	65.34					
<p>Dimensions and Orientation:</p> <div> <div>Length = 3.10 m</div> <div>Width = 0.70 m</div>  </div>		<p>Orientation:</p> <p>Inclination:</p>		<p>Remarks:</p> <ol style="list-style-type: none"> Engineer verified logged in general accordance to BS 5930:2015. Area cleared for services prior to excavations. Groundwater was not encountered during excavation. No visual or olfactory evidence of contamination was encountered. Hole terminated at 3.0 m due to instability. Hole backfilled with arisings in reverse order of excavation. 				
Coordinates: E373818.47 N436507.47	Elevation (mAOD): 68.34	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: RR	Checked: MB	Approved: RJS	Scale: 1:30



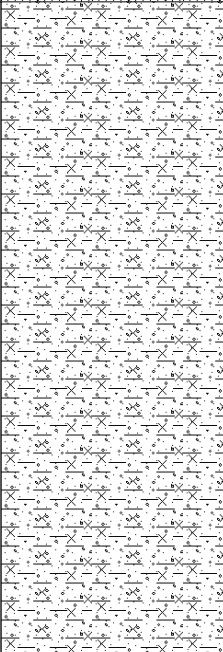
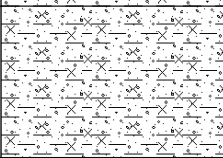
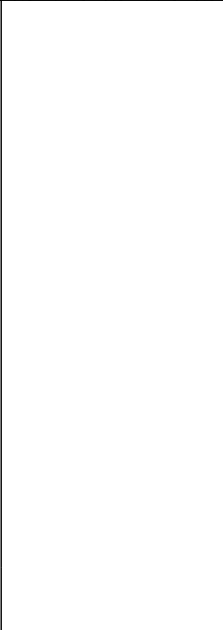
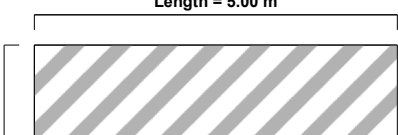
 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP125		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 13/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Brown sandy CLAY. Sand is fine to coarse.		0.30	64.16					
Soft to firm orangish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of natural lithologies. [DEVANSIAN TILL]								
				1.80				
					3.00 - 3.80	B		
		3.80	60.66					
Trial pit complete at 3.80 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.90 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 1.8 m bgl during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.8 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373749.36 N436545.56	Elevation (mAOD): 64.46	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30

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		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 10/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grey brown slightly gravelly silty sandy CLAY with numerous fine rootlets. Sand is fine to medium. Gravel is subangular to subrounded fine quartzite and sandstone. [DEVENSIAN TILL]		0.30	72.05		1.30	B 1		
Firm to stiff orange brown slightly sandy slightly gravelly to gravelly silty CLAY. Sand is fine. Gravel is subangular to subrounded fine to coarse sandstone, siltstone and quartzite. [DEVENSIAN TILL]		0.70	71.65					
Stiff greyish brown and brown slightly sandy slightly gravelly silty CLAY with occasional orange brown fine to medium sand partings. Sand is fine. Gravel is angular to subrounded fine to coarse sandstone. [DEVENSIAN TILL]								
Between 2.7 m and 2.8 m: Band of wet grey brown clayey fine to coarse SAND.		2.80	69.55					
Stiff grey brown slightly sandy slightly gravelly silty CLAY with occasional orange brown fine to medium sand partings. Sand is fine. Gravel is angular to subrounded fine to coarse sandstone. [DEVENSIAN TILL]		2.90	69.45					
Trial pit complete at 2.90 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.30 m</div> <div>Width = 0.50 m</div>  </div>				Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 2.6 m during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.9 m due to instability of pit. 6. Hole backfilled with arisings in reverse order of excavation.		
Coordinates: E373866.30 N436522.54		Elevation (mAOD): 72.35		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: RR Checked: MB Approved: RJS Scale: 1:30


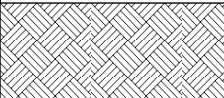
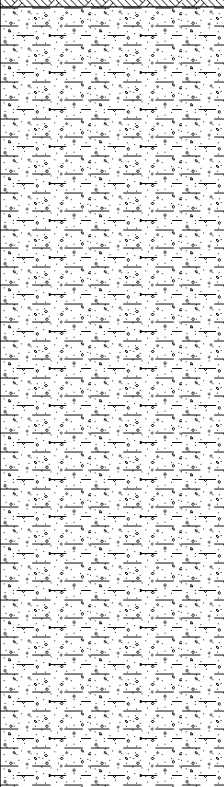


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		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 13/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Brown sandy CLAY. Sand is fine to coarse.		0.30	66.39		0.30 - 0.60	B		
Firm orangish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of natural lithologies. [DEVENSIAN TILL]		2.00	64.69					
Soft to firm brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of natural lithologies. [DEVENSIAN TILL]		3.90	62.79					
Trial pit complete at 3.90 m bgl.					3.90	B		
Dimensions and Orientation: <div> <div>Length = 4.50 m</div> <div>Width = 0.70 m</div>  </div>				Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 1.2 m bgl during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.9 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.		
Coordinates: E373775.31 N436567.62		Elevation (mAOD): 66.69		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: MB Checked: RR Approved: RJS Scale: 1:30



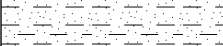
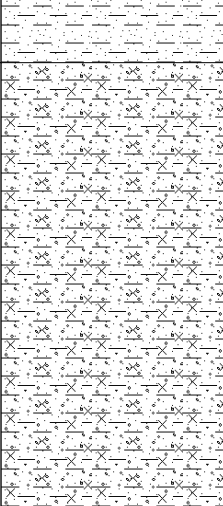
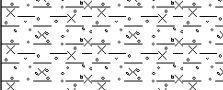



 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP129		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 09/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey SAND. Sand is fine to coarse. <hr/> <i>At 0.3 m: Becomes orangish brown.</i> Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIA TILL]		0.40	69.17	1.30 	1.00 - 2.60	B 1		
Greyish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded mudstone and sandstone. Frequent cobbles throughout. [DEVENSIA TILL]		1.00	68.57					
<i>Between 1.3 m and 1.4 m: Band of fine to medium brown SAND.</i>		2.60	66.97					
Trial pit complete at 2.60 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.50 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 1.3 m during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.6 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373770.31 N436630.94	Elevation (mAOD): 69.57	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: RR	Checked: MB	Approved: RJS	Scale: 1:30

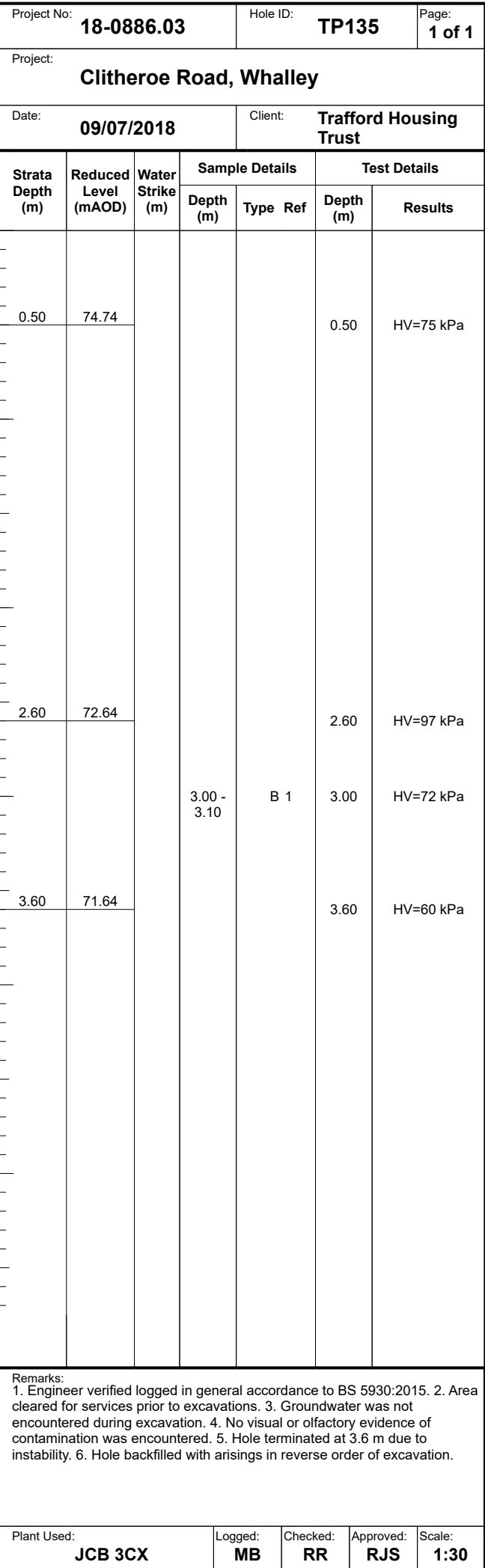
 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP130		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 10/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey SAND. Sand is fine to coarse.		0.30	69.95		2.00	B 1	2.50	HV=67 kPa
Firm orange brown becoming dark grey silty sandy very gravelly CLAY with several subangular to rounded cobbles of sandstone and quartzite. Sand is fine to medium. Gravel is angular to subrounded fine to coarse siltstone, mudstone, sandstone and quartzite. [DEVENSIAN TILL]		2.90	67.35					
Wet very stiff dark grey silty very sandy gravelly CLAY. Sand is fine to medium. Gravel is angular to rounded fine to coarse of natural lithologies. Occasional cobbles of subangular to rounded sandstone and quartzite. [DEVENSIAN TILL]		3.50	66.75					
Trial pit complete at 3.50 m bgl.								
Dimensions and Orientation: <div> <div>Length = 5.00 m</div> <div>Width = 0.70 m</div>  </div>				Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.5 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.		
Coordinates: E373898.98 N436396.15		Elevation (mAOD): 70.25		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: RR Checked: MB Approved: RJS Scale: 1:30


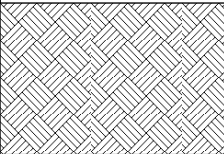

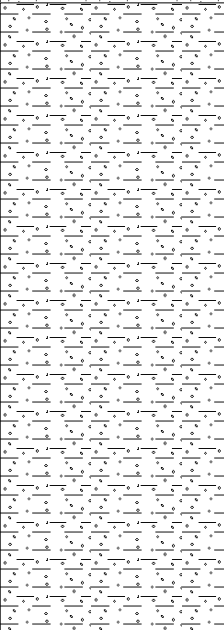




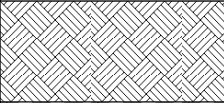
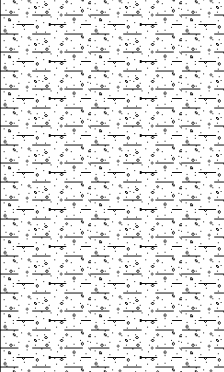

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP132		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 09/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown clayey SAND. Sand is fine to coarse.		0.40	71.88					
Stiff brownish grey slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to coarse subrounded sandstone and mudstone. [DEVENSIAN TILL]					0.60 - 0.70	B 1	0.60	HV=7140 kPa
							1.50	HV=102 kPa
Between 3.5 m and 3.6 m: Becomes wet and recovered as clayey sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded mudstone, shale and sandstone. [DEVENSIAN TILL] Trial pit complete at 3.60 m bgl.		3.60	68.68					
Dimensions and Orientation: <div> Length = 4.50 m Width = 0.70 m  </div>				Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 1.2 m bgl during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.6 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.		
Coordinates: E373832.66 N436627.13	Elevation (mAOD): 72.28	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30


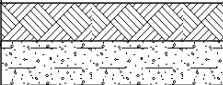
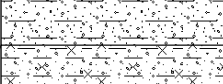
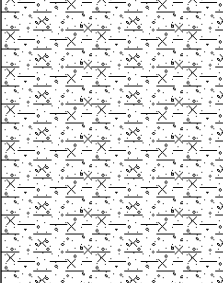

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		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 13/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Brown sandy CLAY. Sand is fine to coarse.		0.20	70.93		1.90	B	1.90 1.90 1.90	HV=103 kPa HV=86 kPa HV=89 kPa
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		0.70	70.43					
Firm to stiff brown slightly silty sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of natural lithologies. [DEVENSIAN TILL]		2.50	68.63					
Firm grey slightly silty gravelly CLAY. Gravel is subrounded fine to coarse of natural lithologies. Frequent subrounded to rounded cobbles and boulders of mudstone. [DEVENSIAN TILL]		2.90	68.23					
Trial pit complete at 2.90 m bgl.								
<div> Dimensions and Orientation: <div> Length = 4.60 m Width = 0.70 m  </div> <div> Orientation: Inclination: </div> </div>		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered bgl during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.9 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.						
Coordinates: E373872.17 N436496.48	Elevation (mAOD): 71.13	Excavated By: Clive Hurt Limited	Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30	


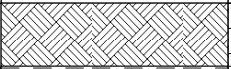
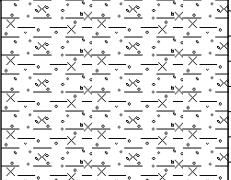
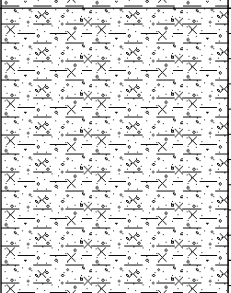
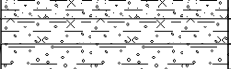
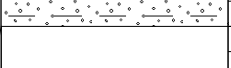




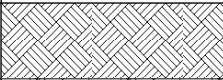
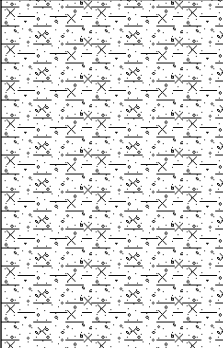
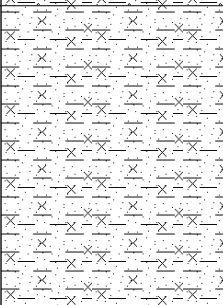
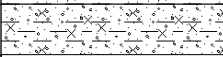




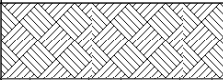
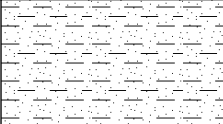
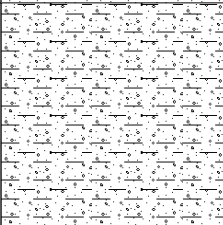
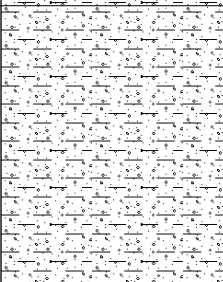

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP136		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 09/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown slightly clayey fine to medium SAND.		0.60	79.66		1.10 - 1.20	B 1	1.00	HV=30 kPa
Orange slightly sandy CLAY. Sand is fine to medium. [DEVENSIA TILL]		0.80	79.46					
Grey clayey very silty very sandy subangular to rounded fine to coarse GRAVEL of sandstone and mudstone with frequent thin bands of soft clay. [DEVENSIA TILL]								
					2.50 - 2.60	B 2	2.60	HV=25 kPa
		3.30	76.96					
Trial pit complete at 3.30 m bgl.								
Dimensions and Orientation: <div> <div>Length = 3.40 m</div> <div>Width = 0.60 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was encountered at 2.6 m bgl during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.3 m due to instability of pit. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373935.51 N436600.55		Elevation (mAOD): 80.26		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: MB Checked: RR Approved: RJS Scale: 1:30


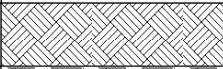
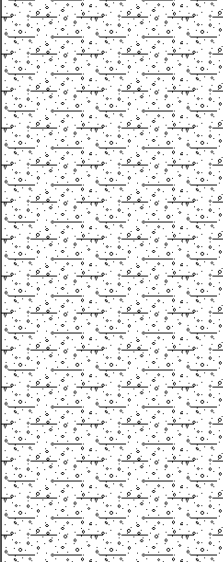
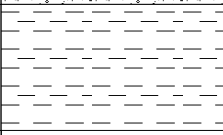
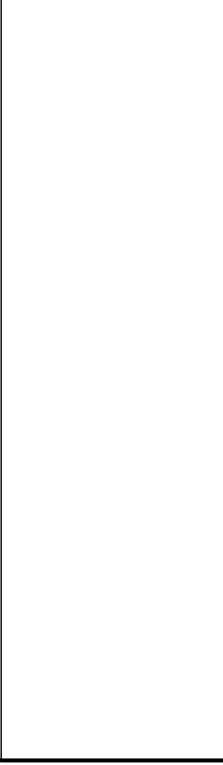

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP137		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 09/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown slightly clayey SAND.		0.40	81.86		0.90 - 1.00	B 1	0.50	HV=131 kPa
At 0.25 m: Becomes orangish brown.								
Stiff orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to medium subangular to subrounded mudstone and sandstone. Occasional sandstone cobbles. [DEVENSIAN TILL]		0.70	81.56					
Soft dark brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded mudstone. [DEVENSIAN TILL]								
		2.20	80.06					
Dark grey and black clayey angular fine to coarse GRAVEL of mudstone. [DEVENSIAN TILL]		2.30	79.96					
Trial pit complete at 2.30 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.50 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.3 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373961.40 N436580.60		Elevation (mAOD): 82.26		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: MB Checked: RR Approved: RJS Scale: 1:30


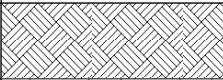
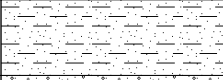
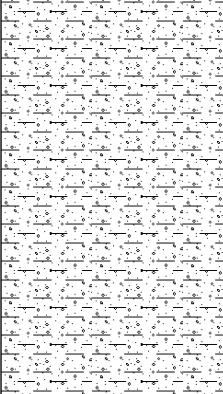
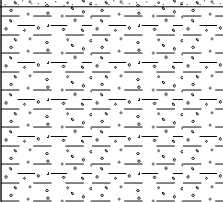

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP138		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 10/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
<p>TOPSOIL: Grass over grey brown slightly silty slightly gravelly CLAY with numerous rootlets. Gravel is subangular to subrounded fine to medium quartzite, sandstone and mudstone.</p> <p>Grey clayey gravelly SAND. Gravel is fine to medium subangular to subrounded of sandstone, quartzite and mudstone. [SUB-SOIL]</p> <p>Firm orange brown slightly sandy slightly silty gravelly CLAY. Sand is fine to medium. Gravel is angular to subrounded sandstone and mudstone. [DEVENSIAN TILL]</p>	  	0.15	78.40		0.70 - 0.80	B 1	1.70	HV=91 kPa
		0.50	78.05					
		1.80	76.75					
		2.70	75.85					
Trial pit complete at 2.70 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.50 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.7 m due to instability. 6 Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373931.28 N436530.33		Elevation (mAOD): 78.55		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: RR Checked: MB Approved: RJS Scale: 1:30

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP139		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 10/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over greyish brown slightly silty slightly gravelly CLAY with numerous rootlets. Gravel is subangular to subrounded fine to medium quartzite, sandstone and mudstone. [DEVENSIAN TILL]		0.25	79.50		0.50 - 0.60	B 1	1.00	HV=43 kPa
Soft to firm orange brown slightly silty gravelly friable CLAY. Sand is fine. Gravel is angular to subrounded fine to coarse mudstone and sandstone. Occasional cobbles of subrounded to rounded sandstone. [DEVENSIAN TILL]		1.00	78.75					
Soft to firm orange brown, brown, orange and black slightly sandy silty gravelly friable CLAY. Sand is fine. Gravel is angular to subrounded fine to coarse Mudstone and Sandstone. Numerous subangular to rounded cobbles of Mudstone and Sandstone.		2.20	77.55					
Stiff dark grey slightly silty gravelly CLAY with several cobbles and boulders of sandstone, siltstone and mudstone. Gravel is fine to medium subangular to subrounded quartzite. [DEVENSIAN TILL]		2.30	77.45					
Dark grey clayey GRAVEL with several boulders of sandstone and siltstone. [DEVENSIAN TILL]		2.50	77.25					
Trial pit complete at 2.50 m bgl.								
Dimensions and Orientation: <div> <div>Length = 3.50 m</div> <div>Width = 0.60 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.5 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates: E373954.78 N436507.89		Elevation (mAOD): 79.75		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: RR Checked: MB Approved: RJS Scale: 1:30

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP140		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 10/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over grey silty slightly gravelly clayey fine to medium SAND. Gravel is angular to rounded fine to medium quartzite and sandstone. Numerous rootlets throughout.		0.30	74.80		0.90 - 1.00	B 1	1.30	HV=62 kPa
Firm orange brown becoming brown with depth slightly sandy silty gravelly friable CLAY. Sand is fine to medium. Gravel is angular to subangular fine to coarse sandstone, quartzite and siltstone. [DEVENSIAN TILL]		1.70	73.40					
Soft to firm grey and dark brown friable sandy silty CLAY with several subangular to rounded fine to coarse cobbles of quartzite, sandstone and siltstone. [DEVENSIAN TILL]		2.90	72.20					
Very stiff dark grey silty sandy very gravelly CLAY. Gravel is angular to subangular fine to coarse grey sandstone. Sand is fine to medium. [DEVENSIAN TILL]		3.10	72.00					
Trial pit complete at 3.10 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.60 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.1 m due to instability of pit. 6. Hole backfilled with arisings in reverse order of excavation.""				
Coordinates: E373918.61 N436477.00		Elevation (mAOD): 75.10		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: RR Checked: MB Approved: RJS Scale: 1:30

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP141		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 13/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Brown sandy CLAY. Sand is fine to coarse.		0.30			2.70 - 2.80	B		
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		0.80						
Orangish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of natural lithologies. Frequent subrounded to rounded cobbles of mudstone and sandstone. [DEVENSIAN TILL]		1.70						
Stiff grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of natural lithologies. Frequent rounded cobbles of mudstone. [DEVENSIAN TILL]		2.80						
Trial pit complete at 2.80 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.50 m</div> <div>Width = 0.70 m</div>  </div>		Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 2.8 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.				
Coordinates:	Elevation (mAOD):	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>			Project No: 18-0886.03		Hole ID: TP142		Page: 1 of 1				
Trial Pit Log			Date: 13/07/2018		Client: Trafford Housing Trust						
Description of Strata			Legend		Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details Depth (m) Type Ref	Test Details Depth (m) Results		
TOPSOIL: Brown sandy CLAY. Sand is fine to coarse.					0.25						
Grey clayey sandy subrounded to rounded fine to coarse GRAVEL of natural lithologies with frequent bands of firm to stiff clay. Sand is fine to coarse. Frequent subrounded to rounded cobbles of mudstone and sandstone. [DEVENSIAN TILL]								1.70 B	1.70 HV=103 kPa 1.70 HV=122 kPa 1.70 HV=70 kPa 1.70 HV=89 kPa 1.70 HV=97 kPa		
Stiff brownish grey CLAY with roots. Very dry breaking up into fragments at top and becomes maleable at 0.9m bgl. At 0.9m bgl becomes slightly sandy and slightly gravelly. Sand is fine to coarse. Gravel is sunrounded fine to coarse of natural lithologies.					2.50		2.50	2.50 - 3.00 B			
Trial pit complete at 3.00 m bgl.					3.00						
Dimensions and Orientation: <div> <div> Length = 4.30 m Width = 0.70 m </div>  </div>					Orientation:		Inclination:				
Remarks: <ol style="list-style-type: none"> Engineer verified logged in general accordance to BS 5930:2015. Area cleared for services prior to excavations. Groundwater was encountered at 2.5 m during excavation. No visual or olfactory evidence of contamination was encountered. Hole terminated at 3.0 m due to instability. Hole backfilled with arisings in reverse order of excavation. 											
Coordinates:		Elevation (mAOD):		Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX		Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30

 <div> Head Office 3 Henley Way, Doddington Road Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com </div>		Project No: 18-0886.03		Hole ID: TP143		Page: 1 of 1		
		Project: Clitheroe Road, Whalley						
Trial Pit Log		Date: 13/07/2018		Client: Trafford Housing Trust				
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type Ref	Depth (m)	Results
TOPSOIL: Grass over brown sandy CLAY. Sand is fine to coarse.		0.30			2.20 - 3.00	B 1		
Orangish brown sandy CLAY. Sand is fine to coarse. [DEVENSIAN TILL]		0.60						
Firm brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to rounded sandstone and mudstone. [DEVENSIAN TILL]		2.20						
Soft to firm grey gravelly CLAY. Gravel is fine to coarse subrounded to rounded sandstone and mudstone. Frequent rounded to subrounded mudstone cobbles. [DEVENSIAN TILL]		3.00						
Trial pit complete at 3.00 m bgl.								
Dimensions and Orientation: <div> <div>Length = 4.60 m</div> <div>Width = 0.70 m</div>  </div>				Orientation: Inclination:		Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater was not encountered during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.0 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation.		
Coordinates:	Elevation (mAOD):	Excavated By: Clive Hurt Limited		Plant Used: JCB 3CX	Logged: MB	Checked: RR	Approved: RJS	Scale: 1:30

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

ARCHWAY ENGINEERING (UK) LTD
AINLEYS INDUSTRIAL ESTATE
ELLAND
WEST YORKSHIRE
HX5 9JP

SPT Hammer Ref: DART239
Test Date: 21/06/2018
Report Date: 21/06/2018
File Name: DART239.spt
Test Operator: BH

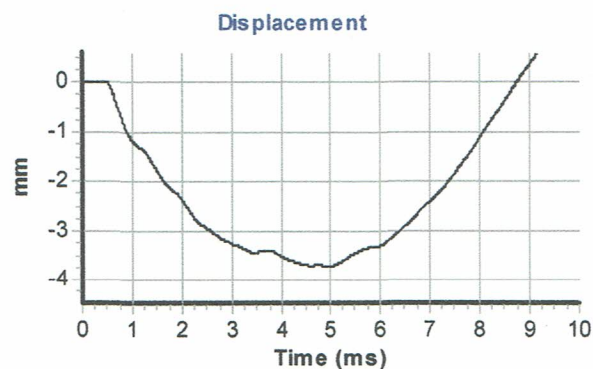
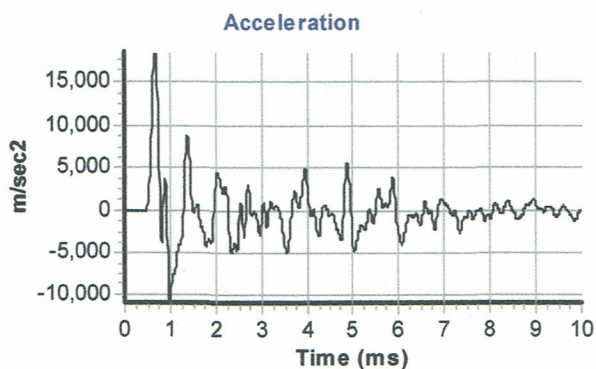
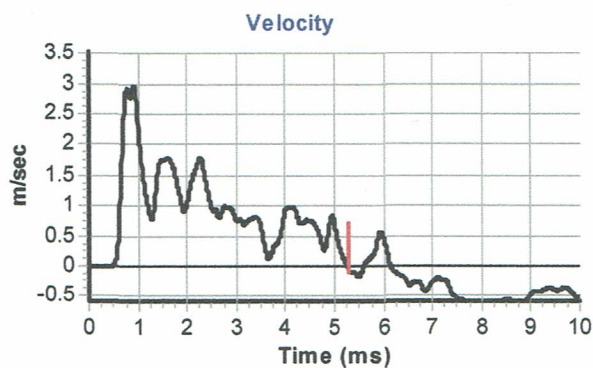
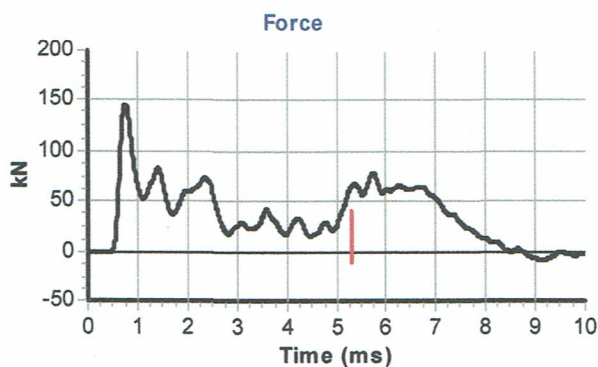
Instrumented Rod Data

Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.3
Assumed Modulus E_a (GPa): 200
Accelerometer No.1: 7080
Accelerometer No.2: 11609

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 10.0

Comments / Location



Calculations

Area of Rod A (mm²): 944
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 290

Energy Ratio E_r (%):

61

Signed: M.GARDNER

Title: FITTER

The recommended calibration interval is 12 months

Appendix C – Geotechnical Analysis Results



4041

TEST CERTIFICATE

Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

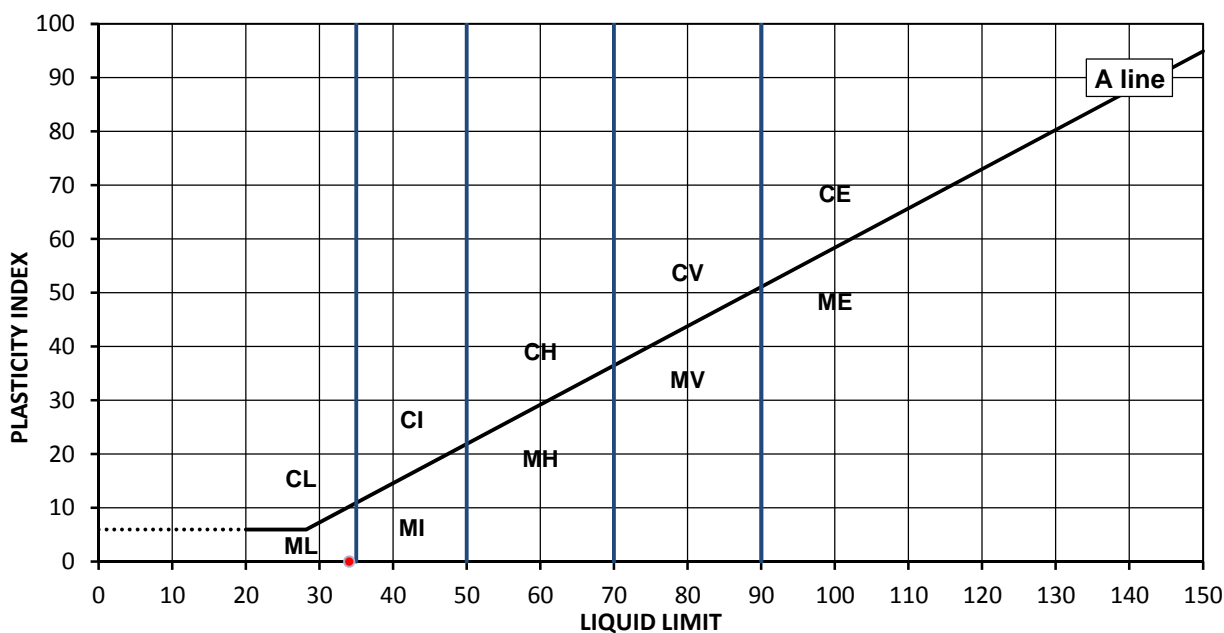
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 11/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test Results

Laboratory Reference: 1006188
Hole No.: TP102
Sample Reference: Not Given
Soil Description: Dark brown gravelly clayey SAND
Sample Preparation: Tested after washing to remove >425um

Depth Top [m]: 0.26
Depth Base [m]: Not Given
Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
16	34	NP	NP	43



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks: NP – non plastic

Approved:

Dariusz Piotrowski
PL Laboratory
Manager
Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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This report may not be reproduced other than in full without the prior written approval of the issuing laboratory.
The results included within the report are representative of the samples submitted for analysis.
The analysis was carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland."



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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

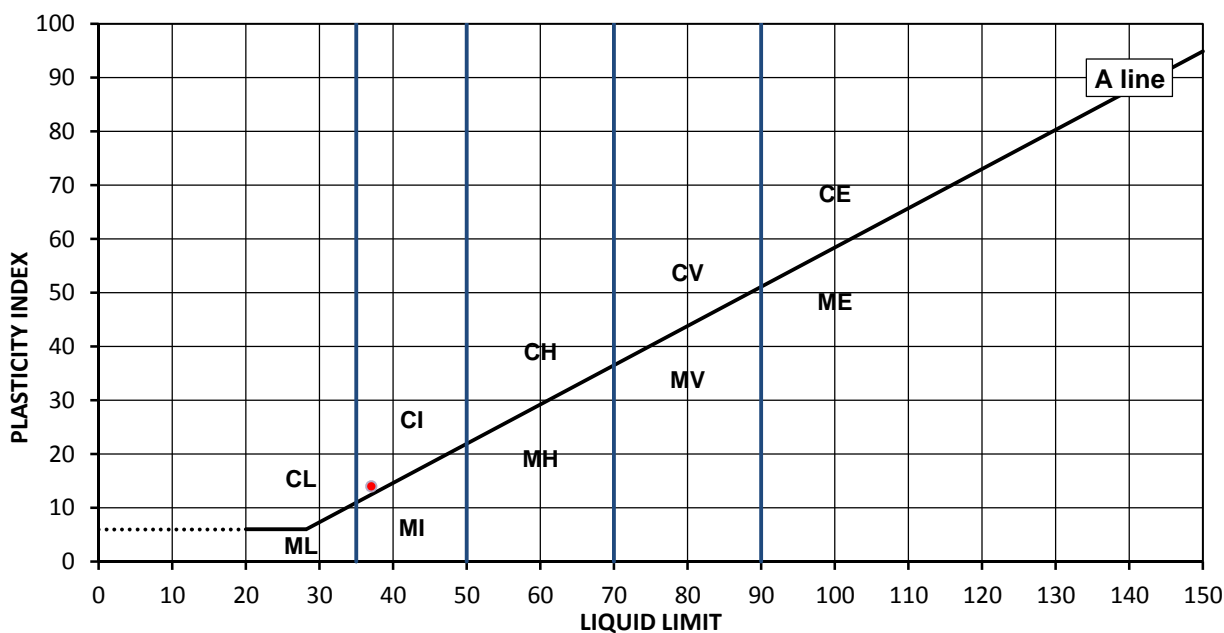
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test Results

Laboratory Reference: 1006192
Hole No.: TP108
Sample Reference: Not Given
Soil Description: Yellowish brown slightly gravelly slightly silty clayey SAND
Sample Preparation: Tested after >425um removed by hand

Depth Top [m]: 1.20
Depth Base [m]: Not Given
Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
33	37	23	14	89



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit	
C	Clay	L	Low
M	Silt	I	Medium
		H	High
		V	Very high
		E	Extremely high
Organic		O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Dariusz Piotrowski
PL Laboratory
Manager
Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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4041

TEST CERTIFICATE

Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

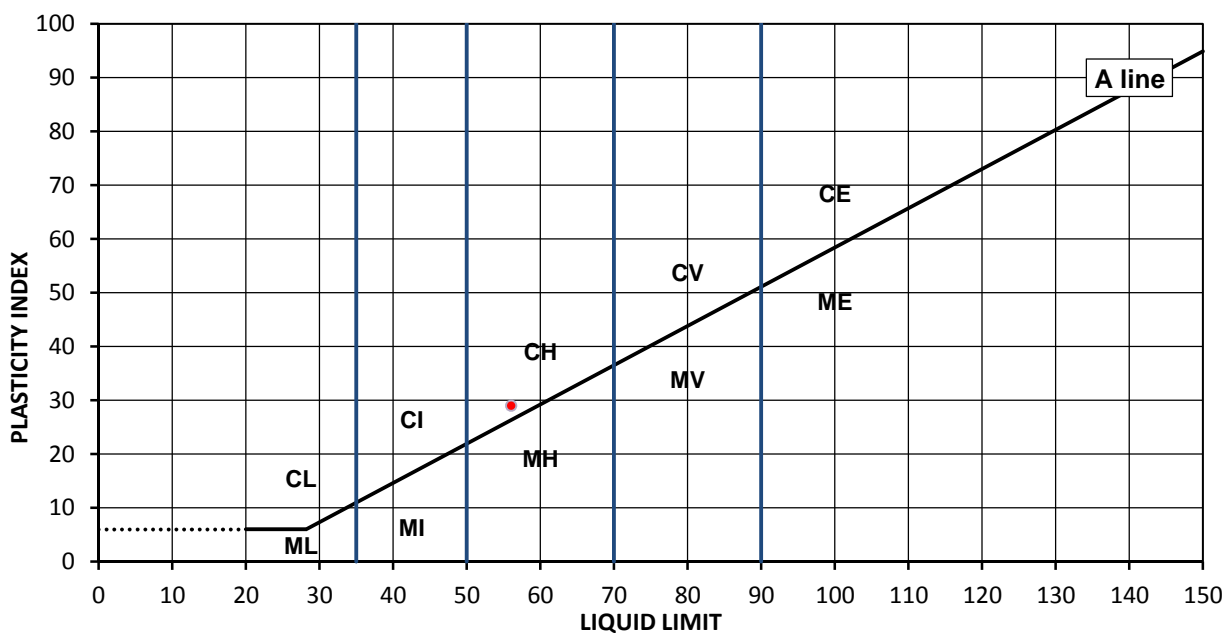
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 11/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test Results

Laboratory Reference: 1006193
Hole No.: TP109
Sample Reference: Not Given
Soil Description: Yellowish brown slightly gravelly slightly sandy CLAY
Sample Preparation: Tested after washing to remove >425um

Depth Top [m]: 0.50
Depth Base [m]: Not Given
Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
23	56	27	29	68



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit	
C	Clay	L	Low
M	Silt	I	Medium
		H	High
		V	Very high
		E	Extremely high
Organic		O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Dariusz Piotrowski
PL Laboratory
Manager
Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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4041

TEST CERTIFICATE

Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

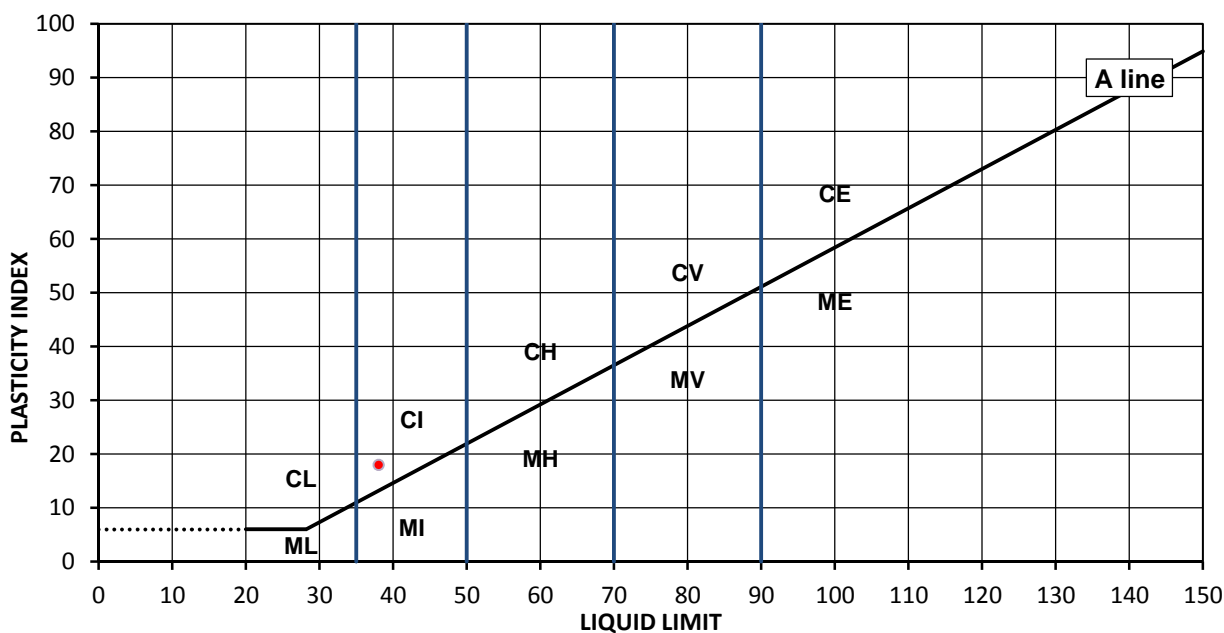
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test Results

Laboratory Reference: 1006194
Hole No.: TP113
Sample Reference: Not Given
Soil Description: Yellowish brown sandy CLAY
Sample Preparation: Tested in natural condition

Depth Top [m]: 0.80
Depth Base [m]: Not Given
Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
18	38	20	18	100



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Dariusz Piotrowski
PL Laboratory
Manager
Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

i2 Analytical Ltd
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Client: Delta-Simons
Client Address: Suite GB
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35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

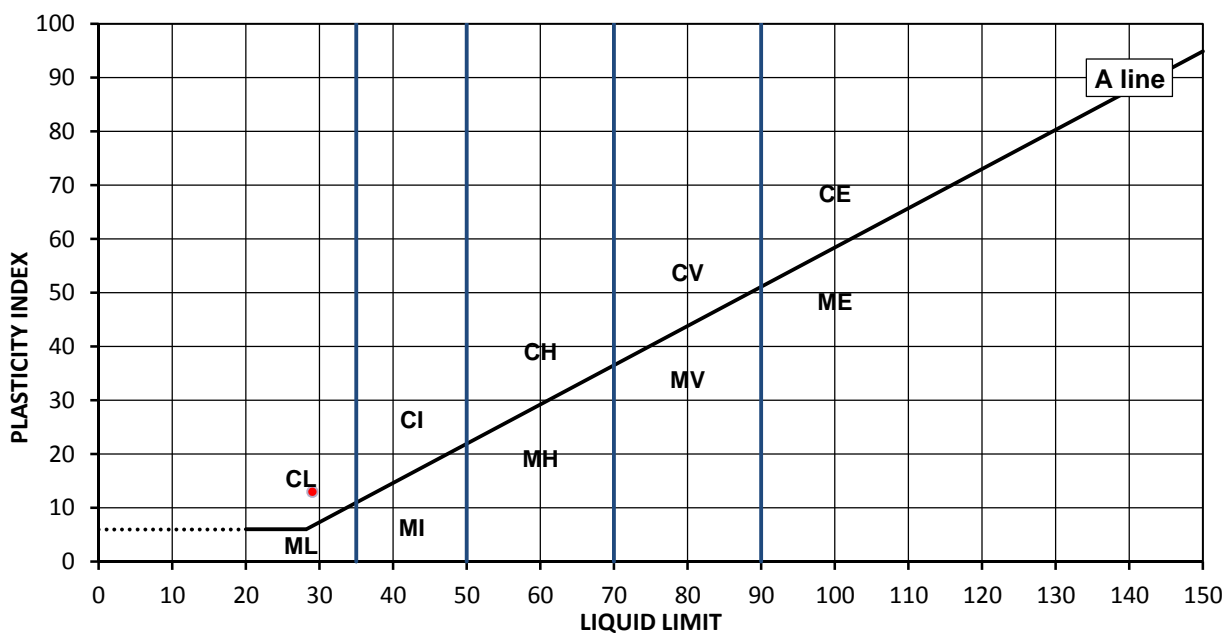
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test Results

Laboratory Reference: 1006196
Hole No.: TP122
Sample Reference: Not Given
Soil Description: Greyish brown gravelly very sandy CLAY
Sample Preparation: Tested after washing to remove >425um

Depth Top [m]: 3.00
Depth Base [m]: Not Given
Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
9.2	29	16	13	58



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Dariusz Piotrowski
PL Laboratory
Manager
Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

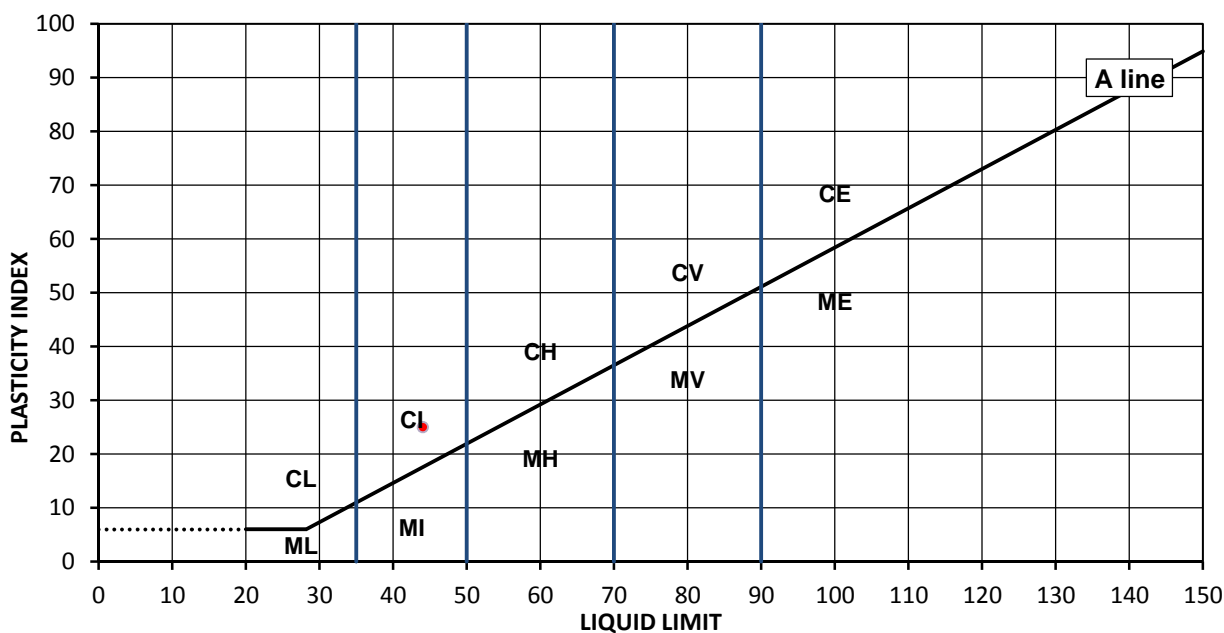
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test Results

Laboratory Reference: 1006197
Hole No.: TP123
Sample Reference: Not Given
Soil Description: Mottled brown gravelly very sandy SILT and CLAY
Sample Preparation: Tested after washing to remove >425um

Depth Top [m]: 1.90
Depth Base [m]: Not Given
Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
27	44	19	25	77



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit	
C	Clay	L	Low
M	Silt	I	Medium
		H	High
		V	Very high
		E	Extremely high
Organic		O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Dariusz Piotrowski
PL Laboratory
Manager
Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

i2 Analytical Ltd
7 Woodshots Meadow
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Watford Herts WD18 8YS



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35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

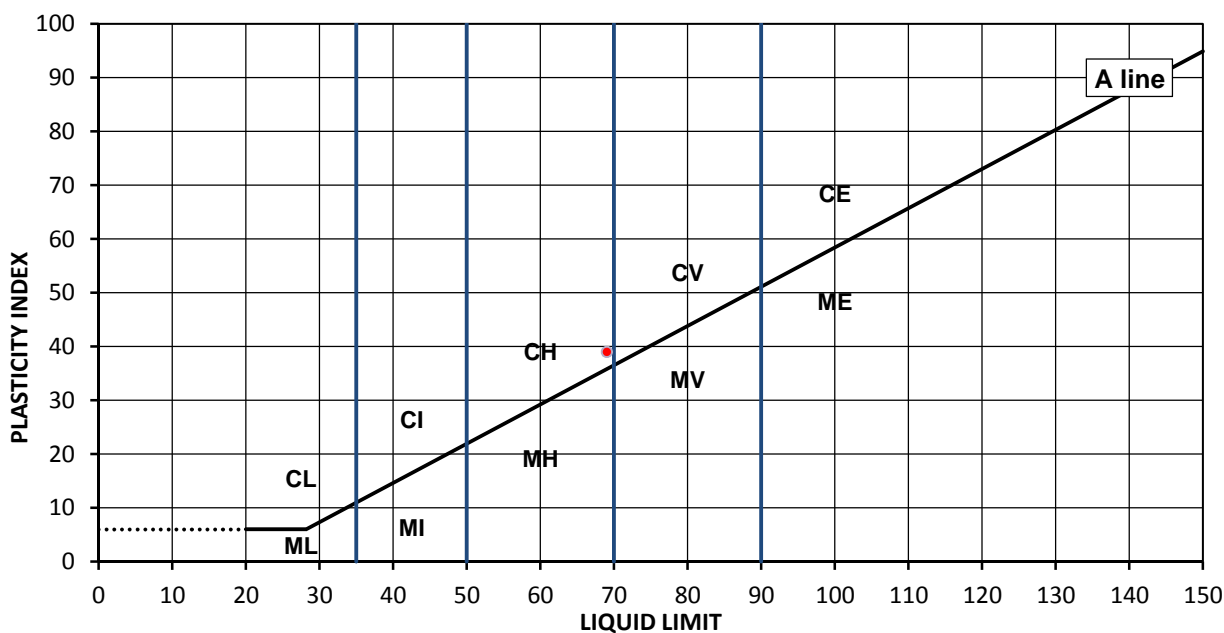
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 10/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test Results

Laboratory Reference: 1006198
Hole No.: TP124
Sample Reference: Not Given
Soil Description: Dark brown slightly gravelly slightly sandy very clayey SILT
Sample Preparation: Tested after >425um removed by hand

Depth Top [m]: 1.40
Depth Base [m]: Not Given
Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
27	69	30	39	95



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit	
C	Clay	L	Low
M	Silt	I	Medium
		H	High
		V	Very high
		E	Extremely high
Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved:

Dariusz Piotrowski
PL Laboratory
Manager
Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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Determination of Liquid and Plastic Limits

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i2 Analytical Ltd
7 Woodshots Meadow
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Watford Herts WD18 8YS



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Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

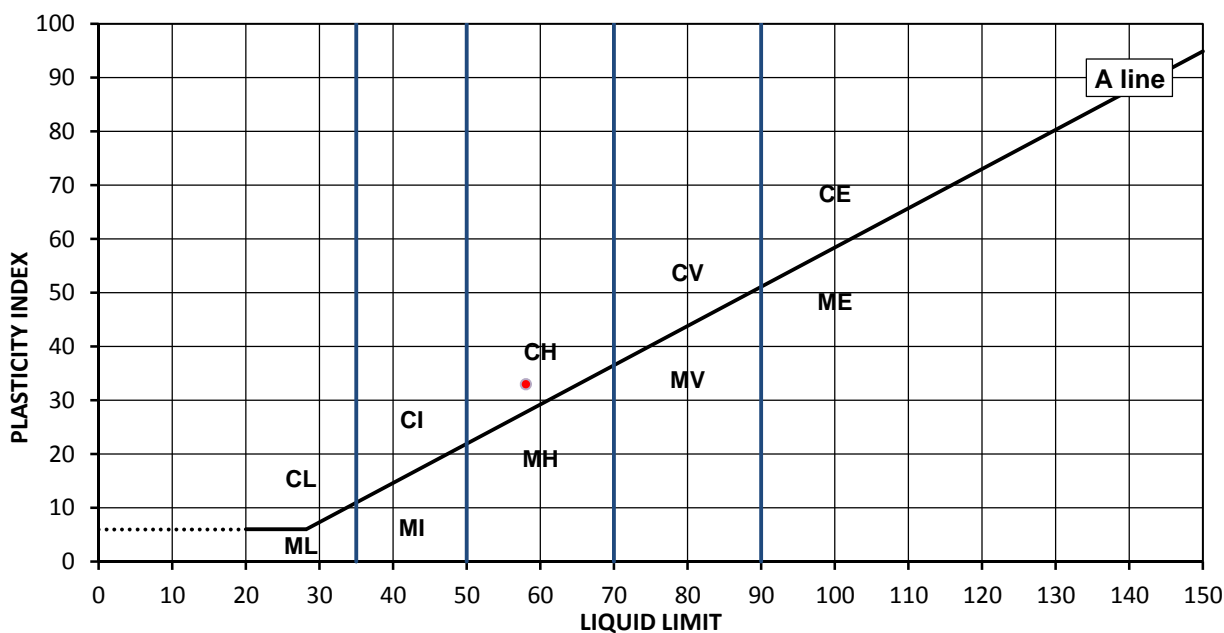
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 09/04/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test Results

Laboratory Reference: 1006199
Hole No.: TP128
Sample Reference: Not Given
Soil Description: Dark brown slightly gravelly slightly sandy very silty CLAY
Sample Preparation: Tested after >425um removed by hand

Depth Top [m]: 2.20
Depth Base [m]: Not Given
Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
27	58	25	33	93



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit	
C	Clay	L	Low
M	Silt	I	Medium
		H	High
		V	Very high
		E	Extremely high
Organic		O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Dariusz Piotrowski
PL Laboratory
Manager
Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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Determination of Liquid and Plastic Limits

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



Client: Delta-Simons
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35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

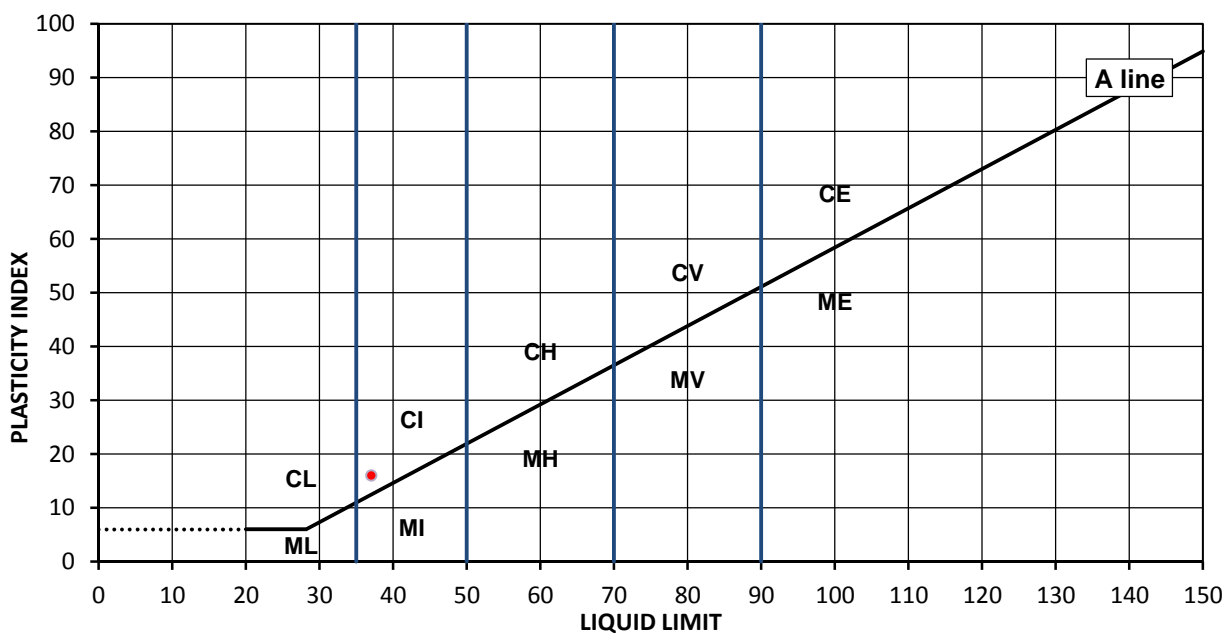
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 09/04/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test Results

Laboratory Reference: 1006200
Hole No.: TP130
Sample Reference: Not Given
Soil Description: Dark brown sandy CLAY
Sample Preparation: Tested in natural condition

Depth Top [m]: 2.00
Depth Base [m]: Not Given
Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
14	37	21	16	100



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
Organic	O	append to classification for organic material (eg CHO)

Remarks:

Approved:

Dariusz Piotrowski
PL Laboratory
Manager
Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

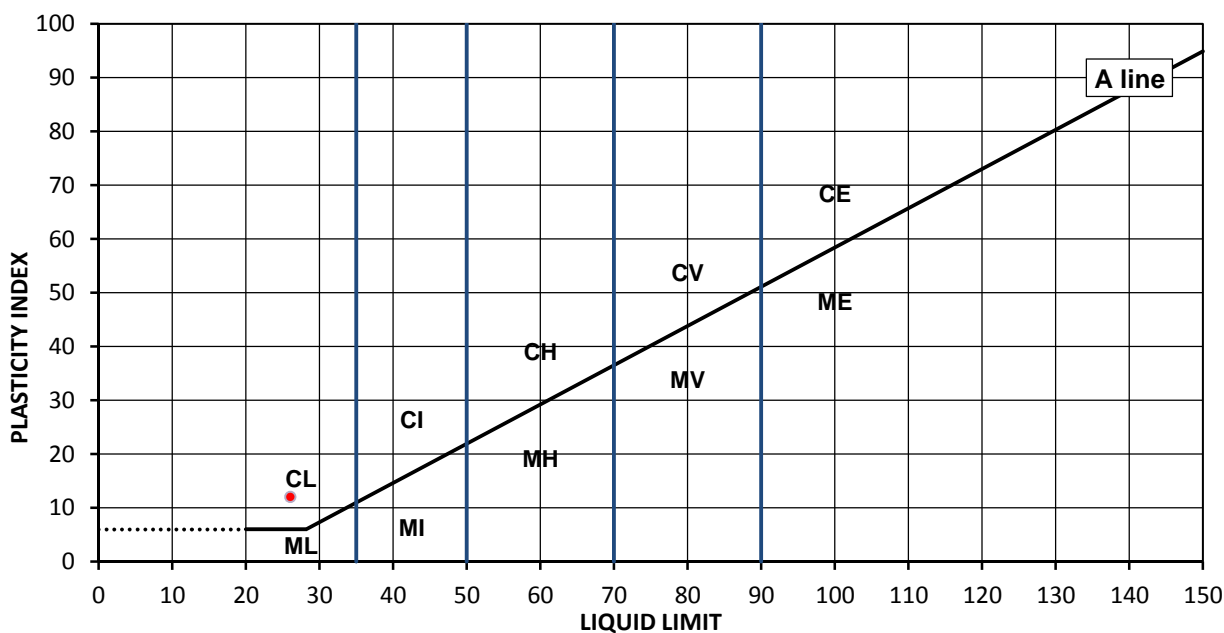
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 09/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test Results

Laboratory Reference: 1006202
Hole No.: TP136
Sample Reference: Not Given
Soil Description: Greyish brown clayey very silty SAND and GRAVEL
Sample Preparation: Tested after >425um removed by hand

Depth Top [m]: 2.50
Depth Base [m]: Not Given
Sample Type: B

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
9.5	26	14	12	50



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit	
C	Clay	L	Low
M	Silt	I	Medium
		H	High
		V	Very high
		E	Extremely high
Organic	O	append to classification for organic material (eg CHO)	

Remarks:

Approved:

Dariusz Piotrowski
PL Laboratory
Manager
Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General
Manager

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Summary of Classification Test Results

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 09/04 - 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test results

Laboratory Reference	Hole No.	Sample				Soil Description	M/C	Atterberg				Density		Total Porosity
		Reference	Top depth [m]	Base depth [m]	Type			% Passing 425um	LL	PL	PI	bulk	PD	
							%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3
1006188	TP102	Not Given	0.26	Not Given	B	Dark brown gravelly clayey SAND	16	43	34	NP	NP			
1006190	TP105	Not Given	3.00	Not Given	B	Dark brown slightly gravelly clayey SAND							2.64	
1006192	TP108	Not Given	1.20	Not Given	B	Yellowish brown slightly gravelly slightly silty clayey SAND	33	89	37	23	14			
1006193	TP109	Not Given	0.50	Not Given	B	Yellowish brown slightly gravelly slightly sandy CLAY	23	68	56	27	29		2.68	
1006194	TP113	Not Given	0.80	Not Given	B	Yellowish brown sandy CLAY	18	100	38	20	18			
1006196	TP122	Not Given	3.00	Not Given	B	Greyish brown gravelly very sandy CLAY	9.2	58	29	16	13		2.69	
1006197	TP123	Not Given	1.90	Not Given	B	Mottled brown gravelly very sandy SILT and CLAY	27	77	44	19	25			
1006198	TP124	Not Given	1.40	Not Given	B	Dark brown slightly gravelly slightly sandy very clayey SILT	27	95	69	30	39			
1006199	TP128	Not Given	2.20	Not Given	B	Dark brown slightly gravelly slightly sandy very silty CLAY	27	93	58	25	33			
1006200	TP130	Not Given	2.00	Not Given	B	Dark brown sandy CLAY	14	100	37	21	16			

Comments: NP - Non Plastic

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 02/08/2018

Signed:

Darren Berrill
Geotechnical General Manager

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Summary of Classification Test Results

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7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG
Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 09/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Test results

Laboratory Reference	Hole No.	Sample				Soil Description	M/C	Atterberg				Density		Total Porosity
		Reference	Top depth [m]	Base depth [m]	Type			% Passing 425um	LL	PL	PI	bulk	PD	
							%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3
1006201	TP132	Not Given	0.60	Not Given	B	Dark brown CLAY							2.68	
1006202	TP136	Not Given	2.50	Not Given	B	Greyish brown clayey very silty SAND and GRAVEL	9.5	50	26	14	12			

Comments:

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Signed:

Darren Berrill
Geotechnical General Manager

Date Reported: 02/08/2018

for and on behalf of i2 Analytical Ltd

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Determination of Particle Size Distribution

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



Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

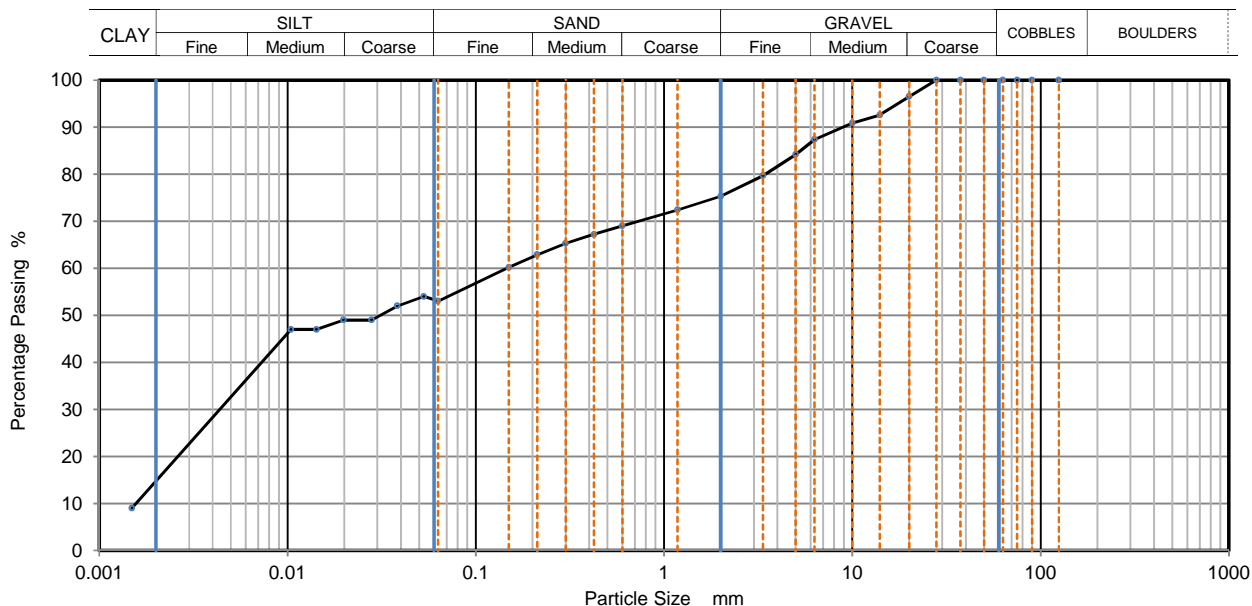
Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Sample Reference: Stockpile

Sample Type: B

Location: AP01
Supplier: Not Given

Depth Top [m]: 0.00
Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0530	54
90	100	0.0383	52
75	100	0.0280	49
63	100	0.0198	49
50	100	0.0143	47
37.5	100	0.0104	47
28	100	0.0015	9
20	97		
14	93		
10	91		
6.3	87		
5	84		
3.35	80		
2	75		
1.18	72		
0.6	69	Particle density	(assumed)
0.425	67	2.65	Mg/m3
0.3	65		
0.212	63		
0.15	60		
0.063	54		

Dry Mass of sample [q]: 1449

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	24.70
Sand	21.60
Silt	38.50
Clay	15.20

Grading Analysis		
D100	mm	28
D60	mm	0.145
D30	mm	0.00431
D10	mm	0.00153
Uniformity Coefficient		95
Curvature Coefficient		0.083

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Postuli

Signed:

Darren Berrill
Geotechnical General
Manager

[Signature]

Date Reported: 02/08/2018

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE**Determination of Particle Size Distribution**

Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG

Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

TEST RESULTS

Laboratory Reference: 1006187

Sample Reference: Stockpile

Sample description: Greyish brown slightly gravelly slightly sandy
clayey SILT

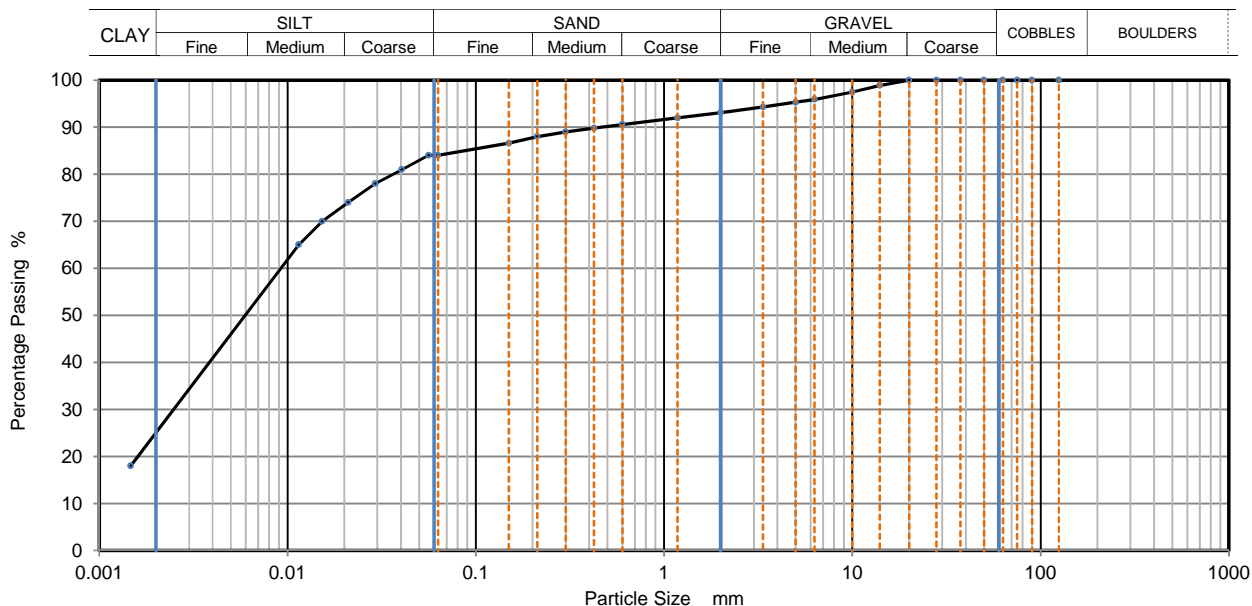
Sample Type: B

Location: AP02

Depth Top [m]: 0.00

Supplier: Not Given

Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0560	84
90	100	0.0404	81
75	100	0.0292	78
63	100	0.0210	74
50	100	0.0153	70
37.5	100	0.0114	65
28	100	0.0075	18
20	100		
14	99		
10	98		
6.3	96		
5	95		
3.35	94		
2	93		
1.18	92		
0.6	91	Particle density (assumed) 2.65 Mg/m ³	
0.425	90		
0.3	89		
0.212	88		
0.15	87		
0.063	84		

Dry Mass of sample [g]: 1186

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	6.90
Sand	9.00
Silt	59.30
Clay	24.80

Grading Analysis	
D100	mm 20
D60	mm 0.00932
D30	mm 0.00251
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General
Manager

Date Reported: 02/08/2018

for and on behalf of i2 Analytical Ltd

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The analysis was carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland."



4041

TEST CERTIFICATE**Determination of Particle Size Distribution**

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



Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG

Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

TEST RESULTS

Laboratory Reference: 1006189

Sample Reference: Not Given

Sample description: Dark brown slightly sandy GRAVEL with cobbles

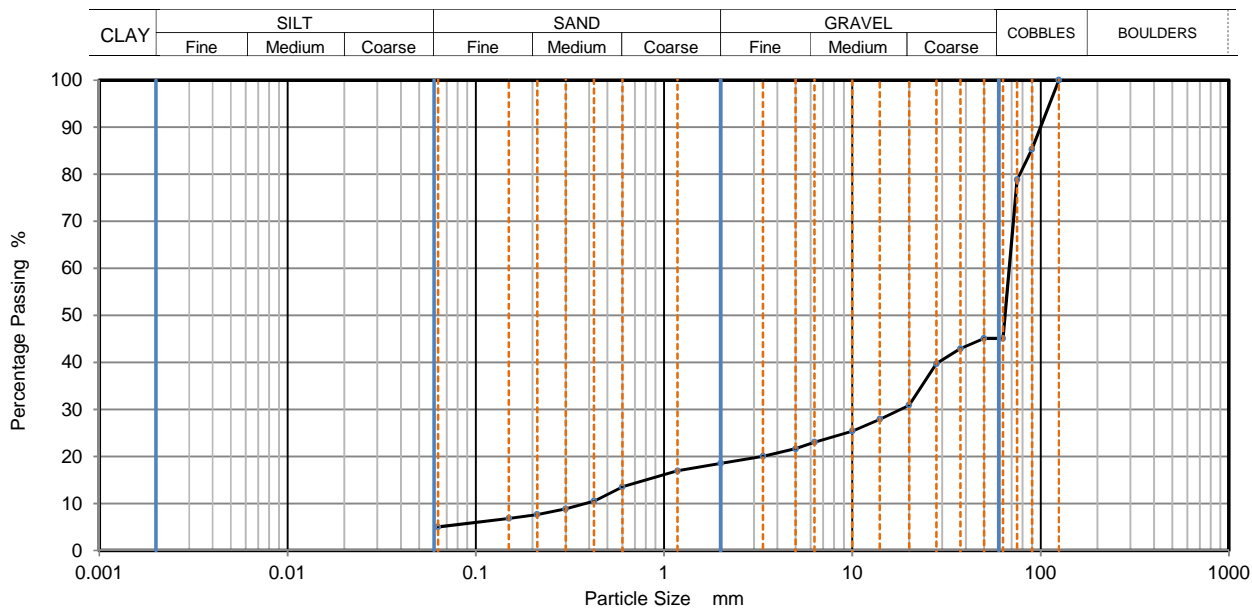
Sample Type: B

Location: TP104

Depth Top [m]: 2.60

Supplier: Not Given

Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	85		
75	79		
63	45		
50	45		
37.5	43		
28	40		
20	31		
14	28		
10	25		
6.3	23		
5	22		
3.35	20		
2	19		
1.18	17		
0.6	14		
0.425	11		
0.3	9		
0.212	8		
0.15	7		
0.063	5		

Dry Mass of sample [g]: 13658

Sample Proportions	% dry mass
Very coarse	54.90
Gravel	26.50
Sand	13.60
Fines <0.063mm	5.00

Grading Analysis	
D100	mm 125
D60	mm 68.1
D30	mm 18
D10	mm 0.386
Uniformity Coefficient	180
Curvature Coefficient	12

Remarks

Preparation and testing in accordance with BS1377 unless noted below
The material submitted - fails to meet the minimum mass requirements as stated in BS1377 Part 2 Table 3

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General
Manager

Date Reported: 02/08/2018

for and on behalf of i2 Analytical Ltd

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Determination of Particle Size Distribution

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



Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG

Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 11/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

TEST RESULTS

Laboratory Reference: 1006190

Sample Reference: Not Given

Sample description: Dark brown slightly gravelly clayey SAND

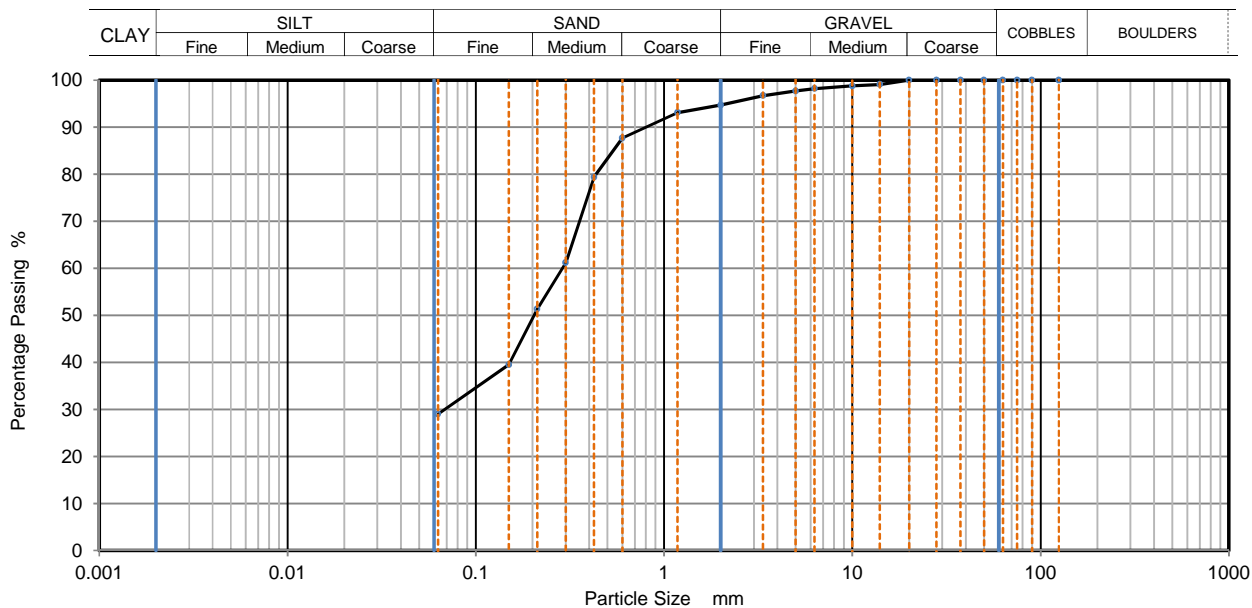
Sample Type: B

Location: TP105

Depth Top [m]: 3.00

Supplier: Not Given

Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	99		
6.3	98		
5	98		
3.35	97		
2	95		
1.18	93		
0.6	88		
0.425	79		
0.3	61		
0.212	51		
0.15	40		
0.063	29		

Dry Mass of sample [q]: 757

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	5.30
Sand	65.50
Fines <0.063mm	29.20

Grading Analysis		
D100	mm	20
D60	mm	0.288
D30	mm	0.0671
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General
Manager

Date Reported: 02/08/2018

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TEST CERTIFICATE**Determination of Particle Size Distribution**

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



Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG

Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

TEST RESULTS

Laboratory Reference: 1006191

Sample Reference: Not Given

Sample description: Light brown slightly gravelly slightly clayey SAND

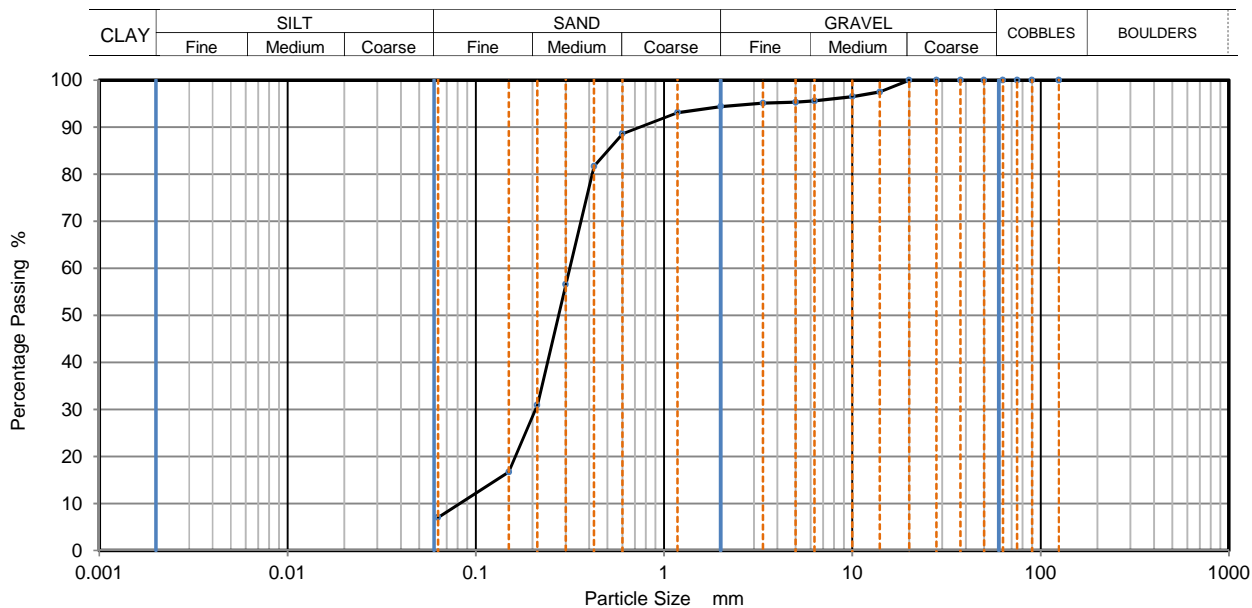
Sample Type: B

Location: TP107

Depth Top [m]: 1.00

Supplier: Not Given

Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	97		
6.3	96		
5	95		
3.35	95		
2	94		
1.18	93		
0.6	89		
0.425	82		
0.3	57		
0.212	31		
0.15	17		
0.063	7		

Dry Mass of sample [g]: 824

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	5.60
Sand	87.10
Fines <0.063mm	7.20

Grading Analysis	
D100	mm 20
D60	mm 0.314
D30	mm 0.208
D10	mm 0.0811
Uniformity Coefficient	3.9
Curvature Coefficient	1.7

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General
Manager

Date Reported: 02/08/2018

for and on behalf of i2 Analytical Ltd

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4041

TEST CERTIFICATE**Determination of Particle Size Distribution**

Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG

Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

TEST RESULTS

Laboratory Reference: 1006192

Sample Reference: Not Given

Sample description: Yellowish brown slightly gravelly slightly silty
clayey SAND

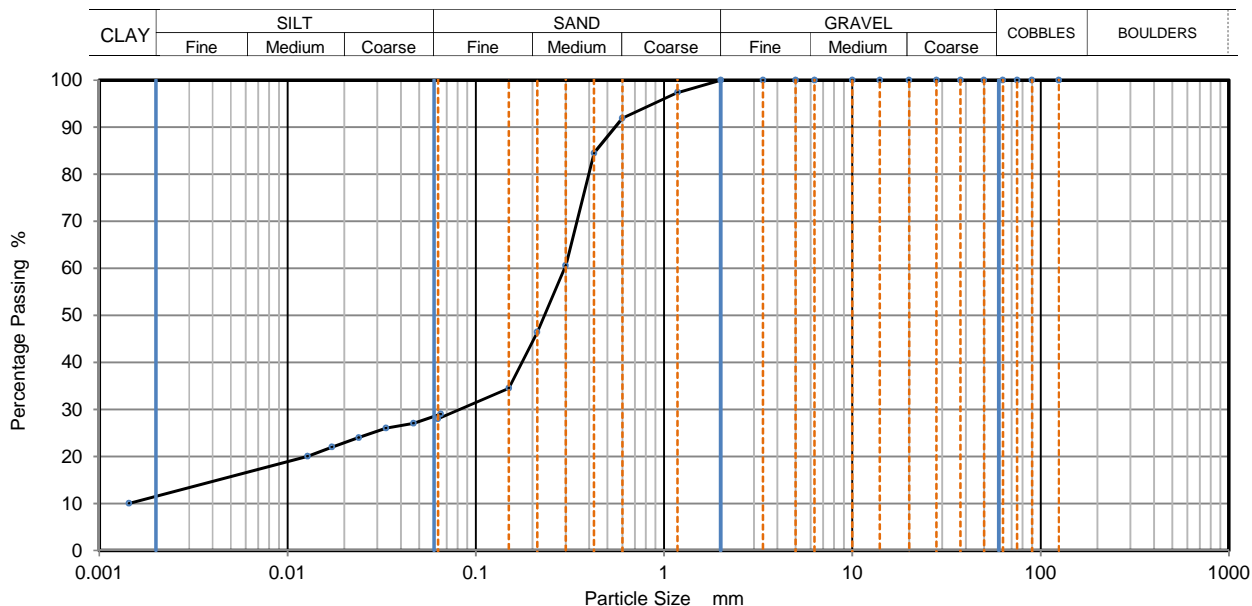
Sample Type: B

Location: TP108

Depth Top [m]: 1.20

Supplier: Not Given

Depth Base [m]: Not Given





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TEST CERTIFICATE**Determination of Particle Size Distribution**

Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG

Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 12/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

TEST RESULTS

Laboratory Reference: 1006197

Sample Reference: Not Given

Sample description: Mottled brown gravelly very sandy SILT and CLAY

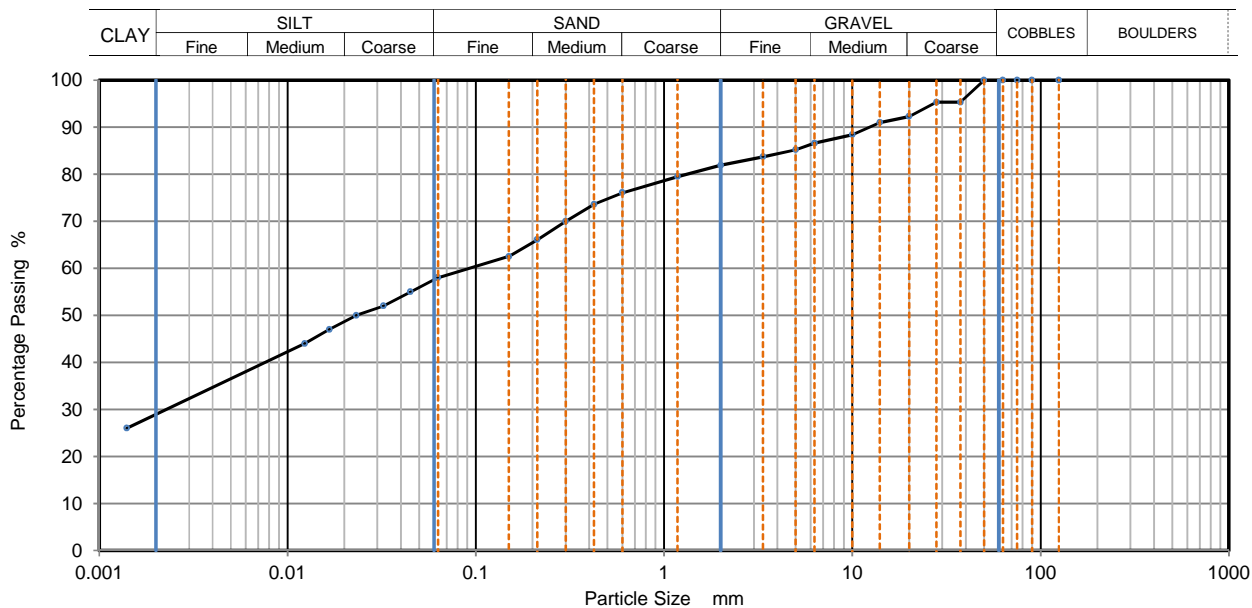
Sample Type: B

Location: TP123

Depth Top [m]: 1.90

Supplier: Not Given

Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0626	58
90	100	0.0450	55
75	100	0.0323	52
63	100	0.0232	50
50	100	0.0167	47
37.5	95	0.0123	44
28	95	0.0014	26
20	92		
14	91		
10	88		
6.3	87		
5	85		
3.35	84		
2	82		
1.18	80		
0.6	76	Particle density (assumed) 2.65 Mg/m ³	
0.425	74		
0.3	70		
0.212	66		
0.15	63		
0.063	58		

Dry Mass of sample [g]: 2273

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	18.10
Sand	23.60
Silt	29.20
Clay	29.10

Grading Analysis	
D100	mm 50
D60	mm 0.0893
D30	mm 0.00224
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General
Manager

Date Reported: 02/08/2018

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE**Determination of Particle Size Distribution**

Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG

Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 10/07/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

TEST RESULTS

Laboratory Reference: 1006198

Sample Reference: Not Given

Sample description: Dark brown slightly gravelly slightly sandy very clayey SILT

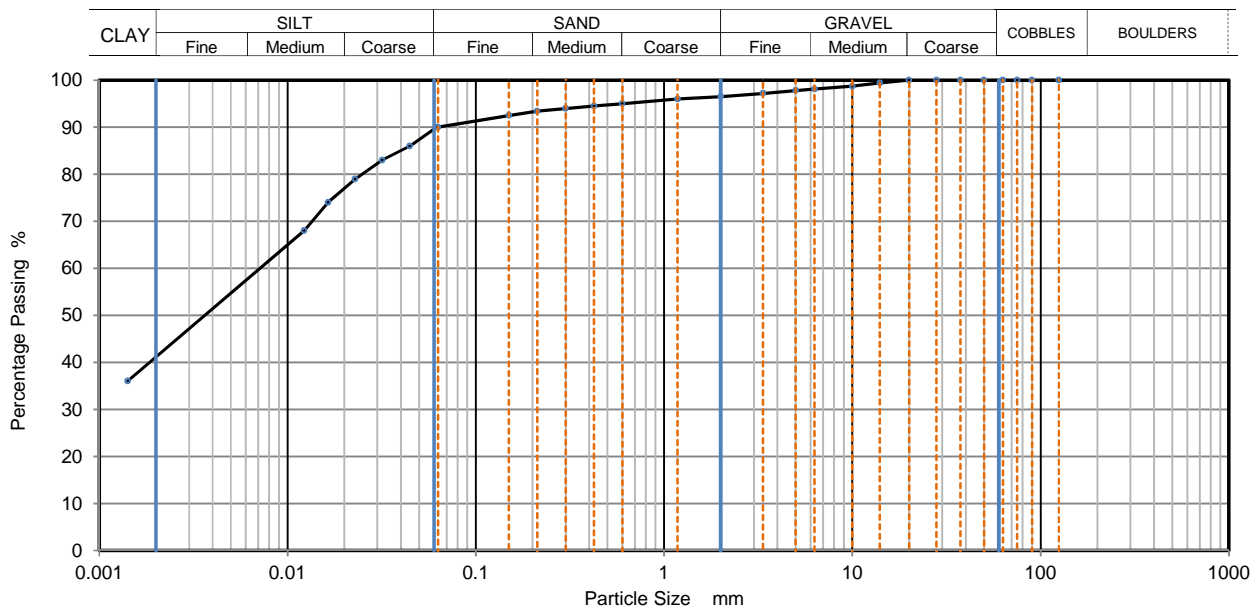
Sample Type: B

Location: TP124

Depth Top [m]: 1.40

Supplier: Not Given

Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0621	90
90	100	0.0446	86
75	100	0.0318	83
63	100	0.0228	79
50	100	0.0164	74
37.5	100	0.0122	68
28	100	0.0014	36
20	100		
14	99		
10	99		
6.3	98		
5	98		
3.35	97		
2	97		
1.18	96		
0.6	95	Particle density (assumed) 2.65 Mg/m ³	
0.425	95		
0.3	94		
0.212	93		
0.15	93		
0.063	90		

Dry Mass of sample [g]: 510

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	3.50
Sand	6.40
Silt	49.00
Clay	41.10

Grading Analysis		
D100	mm	20
D60	mm	0.00729
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General
Manager

Date Reported: 02/08/2018

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE**Determination of Particle Size Distribution**

Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

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



Client: Delta-Simons
Client Address: Suite GB
Barclay House
35 Whitworth Street West
Manchester, M1 5NG

Contact: Rachel Stringer
Site Name: Clitheroe Road, Whalley
Site Address: Not Given

Client Reference: 18-0886-03
Job Number: 18-93466
Date Sampled: 09/04/2018
Date Received: 16/07/2018
Date Tested: 28/07/2018
Sampled By: Melanie Booth

TEST RESULTS

Laboratory Reference: 1006199

Sample Reference: Not Given

Sample description: Dark brown slightly gravelly slightly sandy very silty CLAY

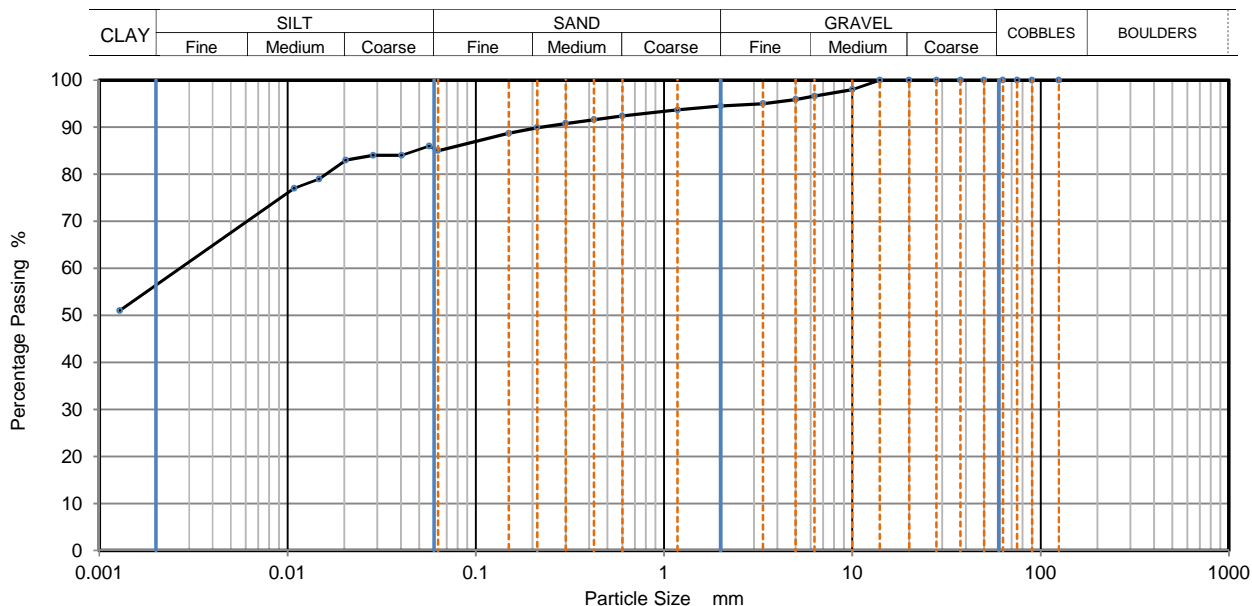
Sample Type: B

Location: TP128

Depth Top [m]: 2.20

Supplier: Not Given

Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0566	86
90	100	0.0404	84
75	100	0.0286	84
63	100	0.0204	83
50	100	0.0147	79
37.5	100	0.0108	77
28	100	0.0013	51
20	100		
14	100		
10	98		
6.3	97		
5	96		
3.35	95		
2	95		
1.18	94		
0.6	92	Particle density (assumed) 2.65 Mg/m ³	
0.425	92		
0.3	91		
0.212	90		
0.15	89		
0.063	86		

Dry Mass of sample [g]: 564

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	5.50
Sand	8.70
Silt	29.70
Clay	56.10

Grading Analysis	
D100	mm 14
D60	mm 0.00272
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Darren Berrill
Geotechnical General
Manager

Date Reported: 02/08/2018

for and on behalf of i2 Analytical Ltd

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