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<b>Client</b>	Northern Trust Limited			
<b>Site</b>	Sneckyeat Road, Whitehaven, CA28 8PF (Site Area 2)			
<b>Drawing</b>	Ground Investigation Layout			
<b>Job No.</b>	<b>Dwg. No.</b>	<b>Rev. No.</b>	<b>Scale@A3</b>	<b>Date</b>
23-13737	3	0	1:2500	Feb' 23



Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: <b>WS1</b>	
Contract Number: CCG-C-23-13737	Date Started: 27/03/2023	Logged By: DK	Checked By: CB	Status: FINAL		Sheet 1 of 1
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier Rig	Rig Crew: LN
Weather:		Termination:		SPT Hammer: N/R, Energy Ratio: N/R		
Scale: 1:25						

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U			0.10		Grassed TOPSOIL		
0.30 - 0.50	ES			0.25		Dark brown slightly silty sandy GRAVEL. Gravel is fine to coarse angular to subround of sandstone brick and cinders (MADE GROUND)		
		HVP=60						
1.00 - 2.00	U			(2.95)		Firm becoming stiff brown slightly gravelly slightly sandy silty CLAY with occasional thin gravelly sand horizons. Gravel is fine to coarse of various angularities and lithologies	1	
		SPT(S)N=9 (1,2/2,2,2,3)						
		HVP=80						
2.00 - 3.00	U			3.20		Weathered grey fine and medium grained SANDSTONE. Recovered at the surface as sands and gravel	2	
		SPT(S)N=16 (2,4/4,3,4,5)		3.40		End of Borehole at 3.40m	3	
		HVP=110						
		SPT(S)N=50 (25 for 65mm/7,8,17,18)					4	
							5	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1 hour hand excavating 1.20mbgl service avoidance pit				
Chiselling					Installation				Water Strikes				
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
				0.00	0.50	PLAIN	50						
				0.50	3.40	SLOTTED	50						
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Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: <b>WS2</b>	
Contract Number: CCG-C-23-13737	Date Started: 27/03/2023	Logged By: DK	Checked By: CB	Status: FINAL		Sheet 1 of 1
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier Rig	Rig Crew: LN
Weather:		Termination:		SPT Hammer: N/R, Energy Ratio: N/R		

Scale: 1:25

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U			0.10		Grassed TOPSOIL		
				0.20		CONCRETE		
0.30 - 0.50	ES			(0.50)		Brown slightly silty gravelly SAND with high cobble content. Gravel is fine to coarse angular to subround of limestone concrete sandstone and brick (MADE GROUND)		
				0.70		Stiff becoming soft brown slightly gravelly slightly sandy silty CLAY with high cobble content. Gravel is fine to coarse angular to subround of sandstone		
1.00 - 1.20	ES			(1.10)			1	
1.00 - 2.00	U	SPT(S)N=38 (2,2/7,11,11,9)						
		HVP=10						
		HVP=100		1.80		Stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies		
		SPT(S)N=27 (1,2/3,5,8,11)		2.00			2	
						End of Borehole at 2.00m		
							3	
							4	
							5	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1 hour hand excavating 1.20mbgl service avoidance pit				
Chiselling					Installation				Water Strikes				
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
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Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: <b>WS3</b>	
Contract Number: CCG-C-23-13737	Date Started: 27/03/2023	Logged By: DK	Checked By: CB	Status: FINAL	Sheet 1 of 1	
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier Rig	Rig Crew: LN
Weather:		Termination:			SPT Hammer: N/R, Energy Ratio: N/R	
Scale: 1:25						

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U			0.10 0.15		Grassed TOPSOIL		
0.30 - 0.50	ES			(0.30)		TARMAC		
				0.45		Dark brown slightly gravelly silty SAND. Gravel is fine to coarse angular to subround of brick (MADE GROUND)		
		HVP=100				Stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies		
1.00 - 2.00	U	SPT(S)N=14 (1,2/3,3,4,4)		(2.25)			1	
		HVP=110						
2.00 - 3.00	U	SPT(S)N=25 (2,2/4,5,7,9)		2.70		Grey weathered MUDSTONE. Recovered at the surface as very sandy gravelly clay		
3.00 - 4.00	U	SPT(S)N=36 (8,8/8,9,9,10)		(2.30)			3	
		HVP=110						
4.00 - 5.00	U	SPT(S)N=39 (8,8/9,10,11,9)		5.00			4	
		SPT(S)N=39 (8,9/10,10,9,10)						
End of Borehole at 5.00m							5	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1 hour hand excavating 1.20m <sup>3</sup> service avoidance pit				
Chiselling					Installation		Water Strikes						
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
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Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: <b>WS4</b>	
Contract Number: CCG-C-23-13737	Date Started: 27/03/2023	Logged By: DK	Checked By: CB	Status: FINAL		Sheet 1 of 1
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier Rig	Rig Crew: LN
Weather:		Termination:		SPT Hammer: N/R, Energy Ratio: N/R		

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U			0.10		Grassed TOPSOIL		
0.30 - 0.50	ES			0.25		Brown very clayey sandy GRAVEL. Gravel is fine to coarse angular to subround of brick and sandstone (MADE GROUND)		
				(0.35)		Brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subround of sandstone cinders coal and limestone (MADE GROUND)		
				0.60		Firm to stiff becoming stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies		
1.00 - 2.00	U	SPT(S)N=9 (1,1/2,2,2,3)					1	
		HVP=70						
		HVP=70		(2.30)				
2.00 - 3.00	U	SPT(S)N=16 (4,3/3,4,4,5)					2	
		HVP=80						
		SPT(S)N=37 (9,12/8,9,10,10)		2.90		Weathered grey MUDSTONE		
				3.00		End of Borehole at 3.00m	3	
							4	
							5	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1 hour hand excavating 1.20mbgl service avoidance pit				
Chiselling					Installation		Water Strikes						
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
				0.00	0.50	PLAIN	50						
				0.50	3.00	SLOTTED	50						
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Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: <b>WS5</b>	
Contract Number: CCG-C-23-13737	Date Started: 27/03/2023	Logged By: DK	Checked By: CB	Status: FINAL		Sheet 1 of 1
Easting:		Northing:		Ground Level:	Plant Used: Dando Terrier Rig	Rig Crew: LN
Dynamic Sampling Borehole Log						Scale: 1:25

Weather: Termination: SPT Hammer: N/R, Energy Ratio: N/R

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U			0.10		Grassed TOPSOIL		
0.30 - 0.50	ES			(0.35)		Brown slightly silty sandy GRAVEL. Gravel is fine to coarse angular to subround of brick (MADE GROUND)		
		HVP=80		0.45		Firm brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies		
1.00 - 2.00	U			(1.75)			1	
		HVP=70						
		SPT(S)N=8 (1,2/2,2,2,2)						
2.00 - 2.90	U			2.20		Medium dense varying to dense brown slightly silty SAND and GRAVEL. Gravel is fine to coarse of various angularities and lithologies		
		HVP=80						
		HVP=70						
		SPT(S)N=14 (1,2/3,3,3,5)					2	
		SPT(S)50 (25 for 20mm/50 for 15mm)		(0.90)				
				3.10		End of Borehole at 3.10m	3	
							4	
							5	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1 hour hand excavating 1.20mbgl service avoidance pit				
Chiselling					Installation		Water Strikes						
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
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Contract Name: Sneckyeat Industrial Estate, Whitehaven		Client: Northern Trust			Borehole ID: <b>WS6</b>	
Contract Number: CCG-C-23-13737	Date Started: 27/03/2023	Logged By: DK	Checked By: CB	Status: FINAL		Sheet 1 of 1
Dynamic Sampling Borehole Log		Easting:	Northing:	Ground Level:	Plant Used: Dando Terrier Rig	Rig Crew: LN
Weather:		Termination:		SPT Hammer: N/R, Energy Ratio: N/R		

Scale: 1:25

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
0.00 - 1.00	U					Grassed TOPSOIL		
0.30 - 0.50	ES	HVP=60		0.20		Firm brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular to subround of brick and sandstone (MADE GROUND)		
		HVP=60		(0.75)				
1.00 - 2.00	U	SPT(S)N=8 (1,2/2,2,2,2)		0.95		Firm becoming stiff brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse of various angularities and lithologies	1	
		HVP=70						
		HVP=70						
2.00 - 3.00	U	SPT(S)N=10 (2,2/3,3,2,2)		(2.15)			2	
		HVP=80						
3.00 - 4.00	U	SPT(S)50 (2,8/50 for 180mm)		3.10		Dense brown silty gravelly SAND. Gravel is fine to coarse subround of sandstone	3	
		HVP=70		(0.70)				
				3.80		End of Borehole at 3.80m	4	
							5	

Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	1 hour hand excavating 1.20mbgl service avoidance pit				
Chiselling					Installation		Water Strikes						
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
				0.00	0.50	PLAIN	50						
				0.50	3.80	SLOTTED	50						
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