

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282694.17	Equipment	Eijkelpamp-Fraste SRS ML Duo/ Insulated Hand Tools
Client	Walters UK Ltd	Northing	211025.58	Method	SNC/IP
Project No	G23012	Level	280.74 mAOD	Termination Reason	Scheduled depth

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Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

1 JUNE 2023

Exploratory Hole Number

S2-BH228

Box / Face Number

Depth (m) from

36.00 to 38.00

Engineer

CE





S2-BH228 36.00 m to 38.00 m

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Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

1 JUNE 2023

Exploratory Hole Number

S2-BH228

Box / Face Number

Depth (m) from

38.00 to 40.00

Engineer

CE





S2-BH228 38.00 m to 40.00 m

Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH229	
25/04/2023 14:30	0.00	0.00	Dry Dry Dry Dry		
25/04/2023 17:00	3.00	1.50			
26/04/2023 08:00	3.00	1.50			
26/04/2023 17:00	15.00	3.00			
				Sheet 1 of 3	
				Scale	1:25
				Drilled	CJ
				Logged	AF
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
1.20	1.50	Air/Mist	Brown	100%	15.00	120mm	3.00	168mm									
1.50	15.00	Air/Mist	Brown	100%													
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Double Tube		Core Barrel Length			1.50	

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Exploratory Hole Progress by Time				Exploratory Hole									
Date and Time	Depth	Casing Depth	Water Depth	S2-BH229 Sheet 2 of 3 <table><tr><td>Scale</td><td>1:25</td></tr><tr><td>Drilled</td><td>CJ</td></tr><tr><td>Logged</td><td>AF</td></tr><tr><td>Checked</td><td>AP</td></tr></table>		Scale	1:25	Drilled	CJ	Logged	AF	Checked	AP
Scale	1:25												
Drilled	CJ												
Logged	AF												
Checked	AP												

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
1.20	1.50	Air/Mist	Brown	100%	15.00	120mm	3.00	168mm									
1.50	15.00	Air/Mist	Brown	100%													
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Double Tube		Core Barrel Length			1.50	

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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH229	
				Sheet 3 of 3	
				Scale	1:25
				Drilled	CJ
				Logged	AF
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
1.20	1.50	Air/Mist	Brown	100%	15.00	120mm	3.00	168mm									
1.50	15.00	Air/Mist	Brown	100%													
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Double Tube		Core Barrel Length		1.50		

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		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH229
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283880.79	Equipment	Terredo C63/Insulated Hand Tools	Sheet 1 of 5
Client	Walters UK Ltd	Northing	211048.73	Method	RC/RO/IP	
Project No	G23012	Level	260.04 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	27 APRIL 2023
Exploratory Hole Number	S2-BH229	Box / Face Number	
Depth (m) from	1.50 to 3.00	Engineer	A

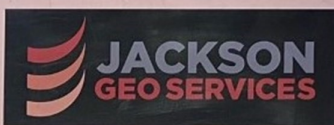





S2-BH229 1.50 m to 3.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	27 APRIL 2023
Exploratory Hole Number	S2-BH229	Box / Face Number	
Depth (m) from	3.00 to 4.50	Engineer	A

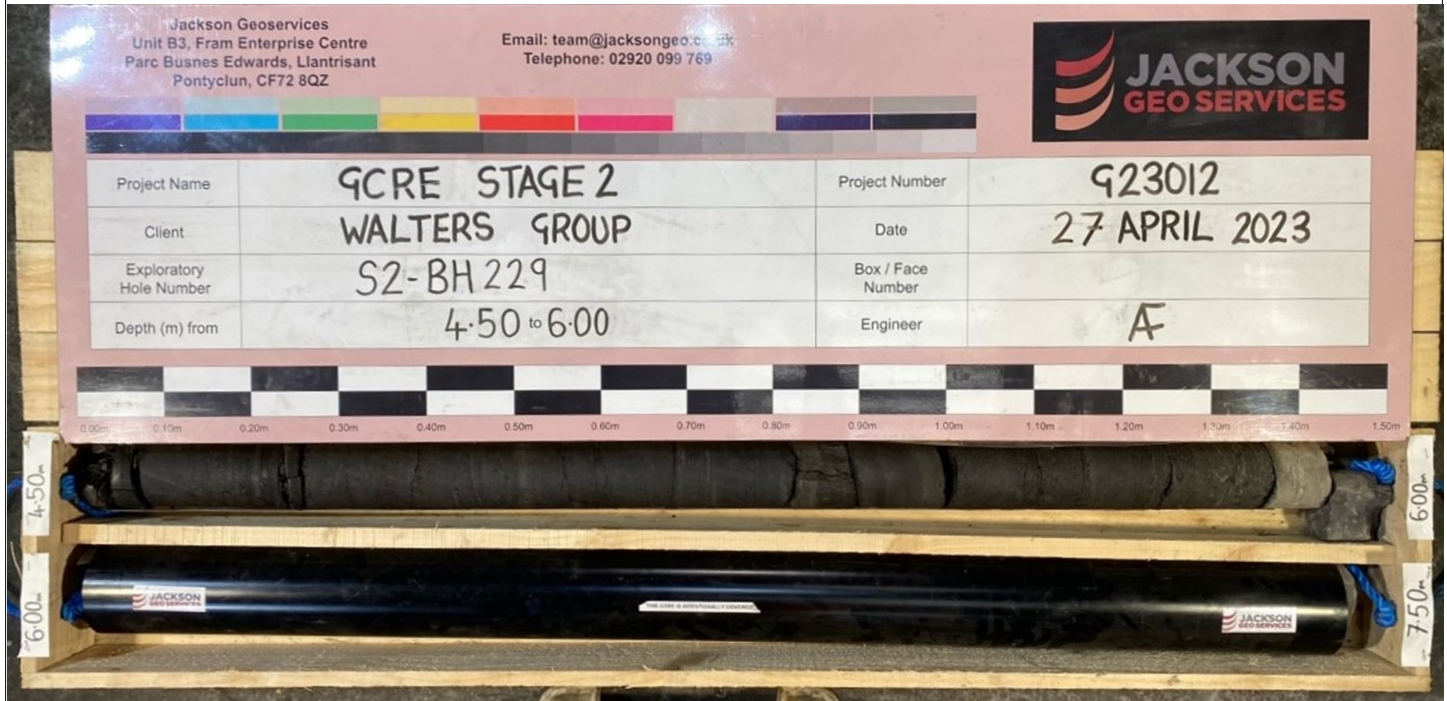





S2-BH229 3.00 m to 4.50 m

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-BH229	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283880.79	Equipment	Terredo C63/Insulated Hand Tools
Client	Walters UK Ltd	Northing	211048.73	Method	RC/RO/IP
Project No	G23012	Level	260.04 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 5

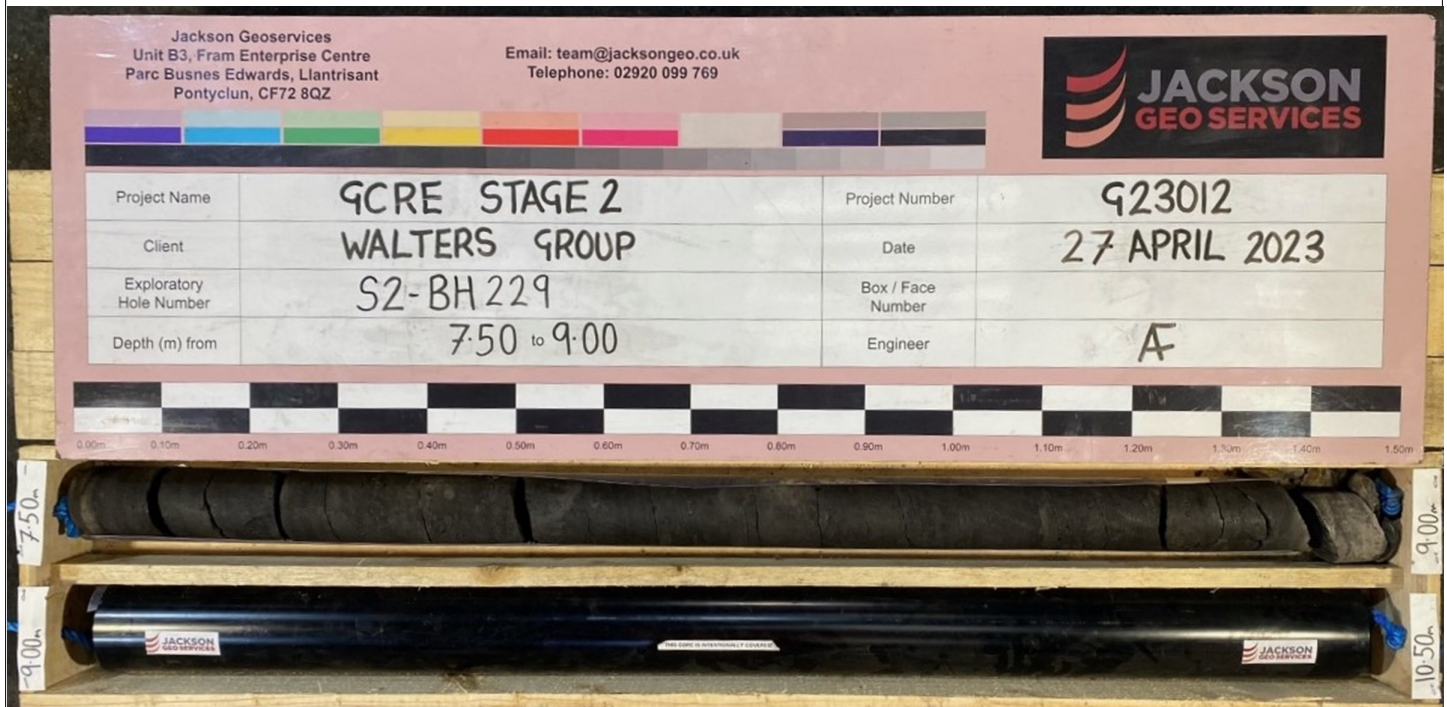


S2-BH229 4.50 m to 6.00 m



S2-BH229 6.00 m to 7.50 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH229
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283880.79	Equipment	Terredo C63/Insulated Hand Tools	Sheet 3 of 5
Client	Walters UK Ltd	Northing	211048.73	Method	RC/RO/IP	
Project No	G23012	Level	260.04 mAOD	Termination Reason	Scheduled depth	



S2-BH229 7.50 m to 9.00 m

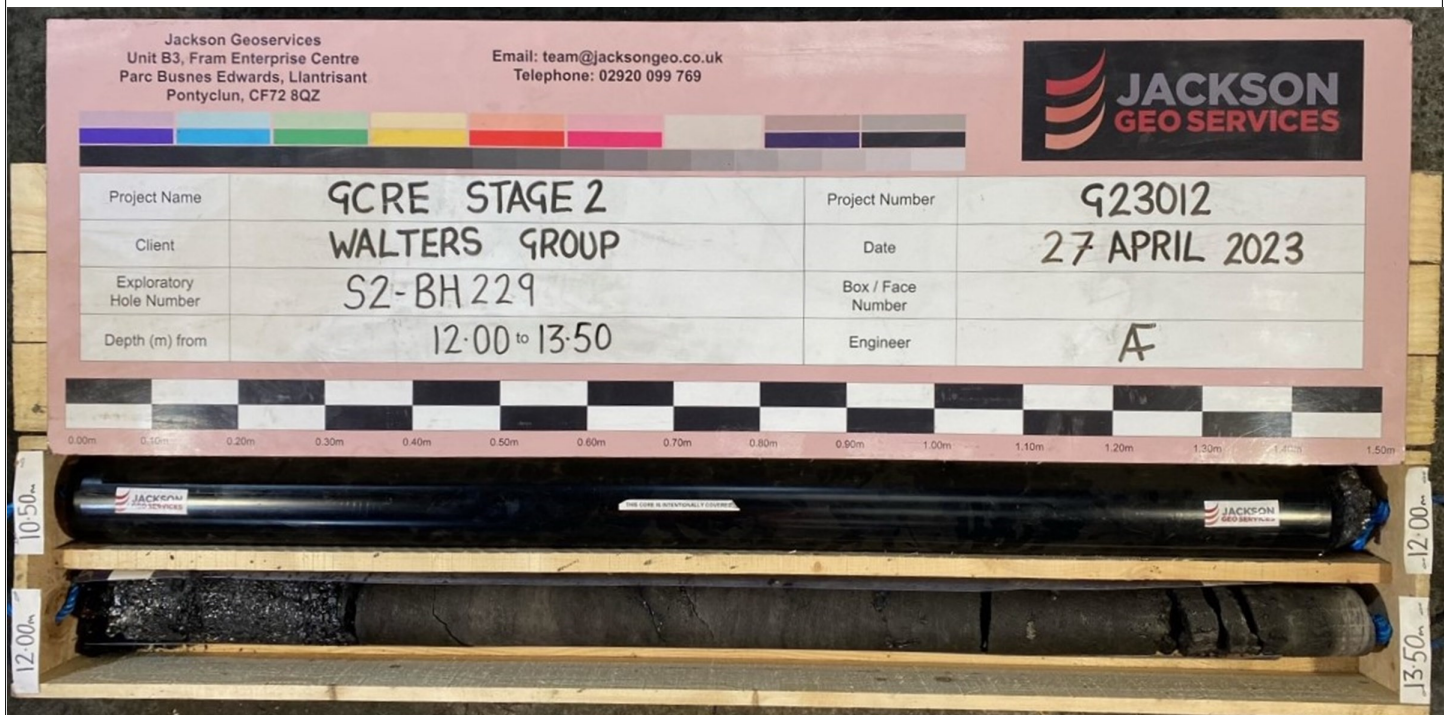


S2-BH229 9.00 m to 10.50 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH229
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283880.79	Equipment	Terredo C63/Insulated Hand Tools	Sheet 4 of 5
Client	Walters UK Ltd	Northing	211048.73	Method	RC/RO/IP	
Project No	G23012	Level	260.04 mAOD	Termination Reason	Scheduled depth	



S2-BH229 10.50 m to 12.00 m



S2-BH229 12.00 m to 13.50 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283880.79	Equipment	Terredo C63/Insulated Hand Tools
Client	Walters UK Ltd	Northing	211048.73	Method	RC/RO/IP
Project No	G23012	Level	260.04 mAOD	Termination Reason	Scheduled depth

A photograph of a geological sample core, labeled '13.50', resting on a wooden surface. Above the core is a color calibration chart and a scale bar marked from 0.00m to 1.50m. A data label is affixed to the top of the image, providing project details for 'GCRE STAGE 2' and 'WALTERS GROUP'. The data label includes fields for Project Name, Client, Exploratory Hole Number, Depth (m) from, Project Number, Date, Box / Face Number, and Engineer. The project number is 923012, the date is 27 APRIL 2023, and the engineer's initial is A. The core itself is dark and cylindrical, with blue rope tied around its ends.

S2-BH229 13.50 m to 15.00 m



Exploratory Hole Progress by Time				Exploratory Hole		
Date and Time		Depth	Casing Depth	Water Depth	S2-BH230	
31/05/2023 10:00		0.00	0.00	Dry Dry Dry Dry Dry Dey		
31/05/2023 17:00		18.00	18.00		Sheet 1 of 3	
01/06/2023 10:00		18.00	18.00		Scale	1:50
01/06/2023 16:45		26.00	26.00		Drilled	ANO/AM
02/06/2023 09:00		26.00	26.00		Logged	AE/AF
02/06/2023 13:00		28.00	26.00		Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	26.00	Water	Grey	100%	26.00	175mm	26.00	175mm									
26.00	28.00	Water	Grey	0%	28.00	100mm											

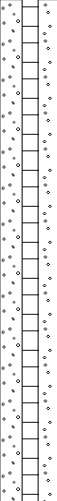
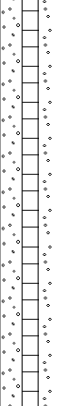
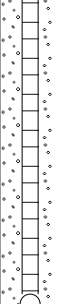
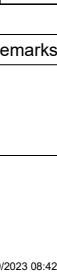
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Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH230	
				Sheet 2 of 3	
				Scale	1:50
				Drilled	ANO/AM
				Logged	AE/AF
				Checked	AP

Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00 26.00	26.00 28.00	Water Water	Grey Grey	100% 0%	26.00 28.00	175mm 100mm	26.00	175mm									

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		SONIC DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH230				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Insulated Hand Tools/Eijkelpomp-Fraste CRS XL				Sheet 3 of 3					
Client		Walters UK Ltd				Method		IP/SNC				Scale		1:50			
Project No		G23012		Level		284.04 mAOD		Inclination		90 degrees		Drilled		ANO/AM			
Easting		282992.74		Northing		210972.68		SPT Hammer Serial Number				Logged		AE/AF			
Termination Reason		Unable to progress casing.				SPT Hammer Energy Ratio		%				Checked		AP			
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks			Drill Runs	TCR	Depth (Thickness)	Level (mAOD)	Legend	Description			Scale	Backfill		
134 ES	21.00 - 21.20 21.00		PID: 0.0ppmv			20.00 - 22.00	80%	(3.30)	260.74		Grey to dark grey silty sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			20.50			
135 B	23.30 - 26.00 23.50		PID: 0.0ppmv			22.00 - 24.00	60%							23.30		21.00	
136 B	26.00 - 26.50 26.20		PID: 0.0ppmv			24.00 - 26.00	40%	(2.70)	258.04		Recovered as light grey becoming grey very angular to subangular COBBLES of predominantly siltstone with a little slightly silty slightly sandy very angular fine to coarse gravel of predominantly siltstone. Sand is fine to coarse. (MADE GROUND) Geology Code: SWCM 2nd Geology Code: CO			21.50			
137 B	26.50 - 28.00		PID: 0.0ppmv											26.00		23.50	
138 ES	27.50 - 27.70 27.50		PID: 0.0ppmv			26.00 - 28.00	75%	(1.50)	257.54		Recovered as light grey angular to subangular COBBLES of strong sandstone. (Possible fractured boulder). (MADE GROUND) Geology Code: MGR 2nd Geology Code: CO Light grey becoming grey silty sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low to medium cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			24.00			
								256.04	24.50	25.00							
											End of Exploratory Hole at 28.00m			25.50			
														26.00			
														26.50			
														27.00			
														27.50			
														27.50			
														28.00			
														28.50			
														29.00			
														29.50			
														30.00			
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	26.00	Water	Grey	100%	26.00	175mm	26.00	175mm									
26.00	28.00	Water	Grey	0%	28.00	100mm											
Remarks																	
Hand excavated trial pit from GL to 0.50m depth. Sonic sampling from 0.50m to 28.00m.																	
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Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282992.74	Equipment	Insulated Hand Tools/Eijkelpomp-Fraste CRS XL
Client	Walters UK Ltd	Northing	210972.68	Method	IP/SNC
Project No	G23012	Level	284.04 mAOD	Termination Reason	Unable to progress casing.

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	0.00 to 2.00	Engineer	A




S2-BH230 0.00 m to 2.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	2.00 to 4.00	Engineer	A



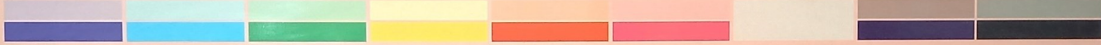
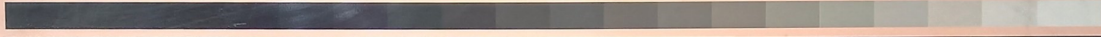

S2-BH230 2.00 m to 4.00 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282992.74	Equipment	Insulated Hand Tools/Eijkelpomp-Fraste CRS XL
Client	Walters UK Ltd	Northing	210972.68	Method	IP/SNC
Project No	G23012	Level	284.04 mAOD	Termination Reason	Unable to progress casing.

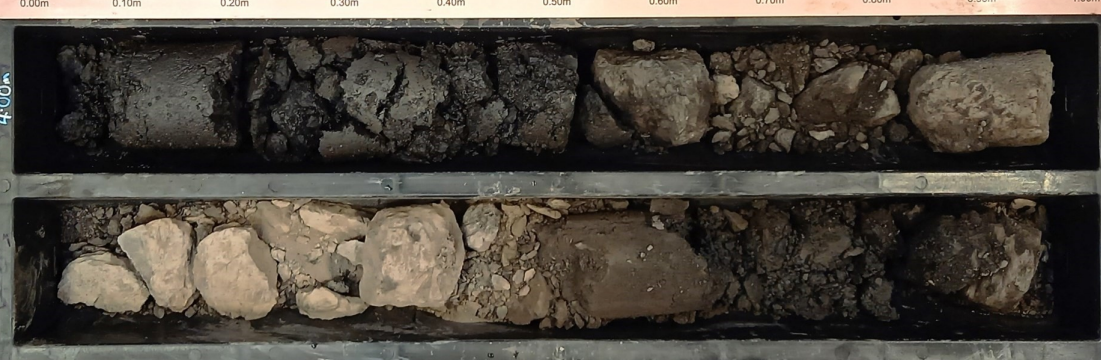
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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	4:00 to 6:00	Engineer	A

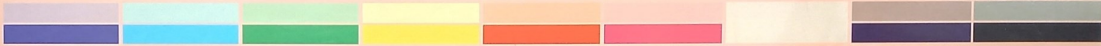
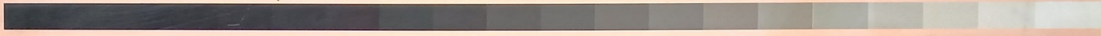



S2-BH230 4.00 m to 6.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	6:00 to 8:00	Engineer	A

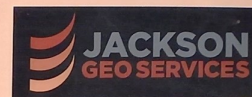



S2-BH230 6.00 m to 8.00 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282992.74	Equipment	Insulated Hand Tools/Eijkelpomp-Fraste CRS XL
Client	Walters UK Ltd	Northing	210972.68	Method	IP/SNC
Project No	G23012	Level	284.04 mAOD	Termination Reason	Unable to progress casing.

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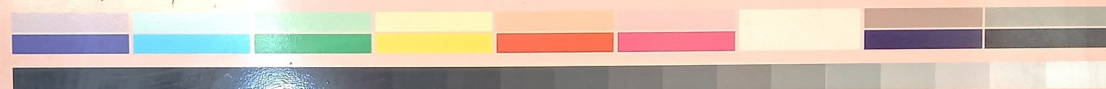
Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	8.00 to 10.00	Engineer	A



S2-BH230 8.00 m to 10.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	10.00 to 12.00	Engineer	A



S2-BH230 10.00 m to 12.00 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282992.74	Equipment	Insulated Hand Tools/Eijkelpomp-Fraste CRS XL
Client	Walters UK Ltd	Northing	210972.68	Method	IP/SNC
Project No	G23012	Level	284.04 mAOD	Termination Reason	Unable to progress casing.

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	12.00 to 14.00	Engineer	A





S2-BH230 12.00 m to 14.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	14.00 to 16.00	Engineer	A





S2-BH230 14.00 m to 16.00 m

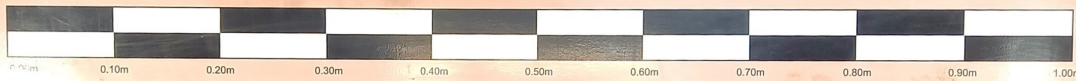
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282992.74	Equipment	Insulated Hand Tools/Eijkelpomp-Fraste CRS XL
Client	Walters UK Ltd	Northing	210972.68	Method	IP/SNC
Project No	G23012	Level	284.04 mAOD	Termination Reason	Unable to progress casing.

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	16.00 to 18.00	Engineer	A



S2-BH230 16.00 m to 18.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	18.00 to 20.00	Engineer	A



S2-BH230 18.00 m to 20.00 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282992.74	Equipment	Insulated Hand Tools/Eijkelpomp-Fraste CRS XL
Client	Walters UK Ltd	Northing	210972.68	Method	IP/SNC
Project No	G23012	Level	284.04 mAOD	Termination Reason	Unable to progress casing.

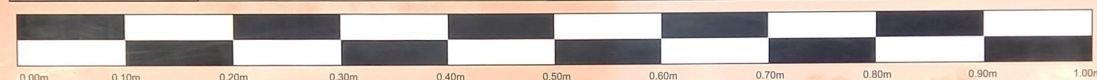
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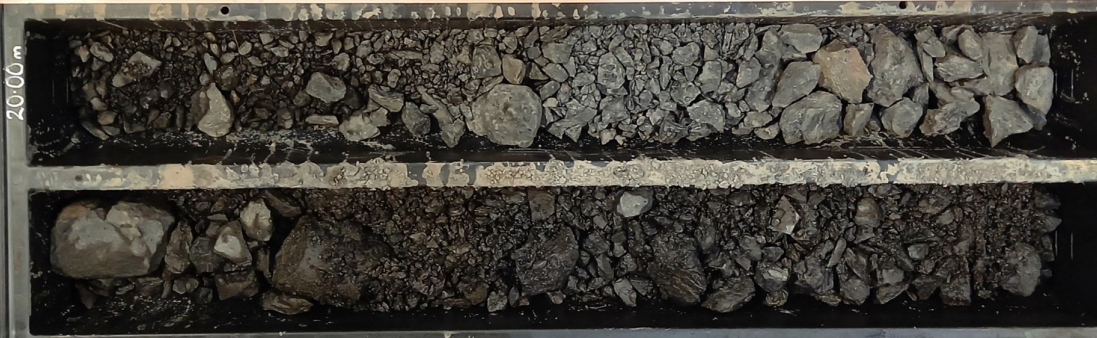
Email: team@jacksongeo.co.uk
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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	20.00 to 22.00	Engineer	A





S2-BH230 20.00 m to 22.00 m

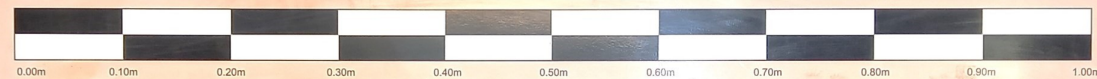
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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	22.00 to 24.00	Engineer	A



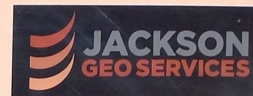


S2-BH230 22.00 m to 24.00 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282992.74	Equipment	Insulated Hand Tools/Eijkelpomp-Fraste CRS XL	Sheet 7 of 7
Client	Walters UK Ltd	Northing	210972.68	Method	IP/SNC	
Project No	G23012	Level	284.04 mAOD	Termination Reason	Unable to progress casing.	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	6 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	24:00 to 26:00	Engineer	A



S2-BH230 24.00 m to 26.00 m

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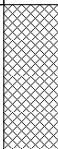
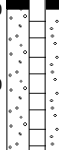
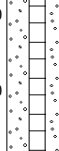
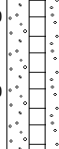
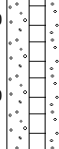
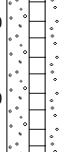
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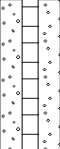
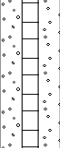
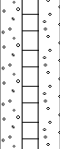
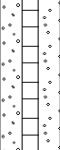
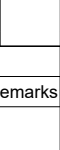
Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	7 JUNE 2023
Exploratory Hole Number	S2-BH230	Box / Face Number	
Depth (m) from	26:00 to 28:00	Engineer	A



S2-BH230 26.00 m to 28.00 m

		SONIC DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole												
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH231											
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Eijkelpamp-Fraste SRS ML Duo				Sheet 1 of 3												
Client		Walters UK Ltd				Method		SNC				Scale 1:50												
Project No		G23012		Level		267.63 mAOD		Inclination		90 degrees		Drilled AM												
Easting		282495.52		Northing		210806.95		SPT Hammer Serial Number				Logged AF												
Termination Reason		Scheduled depth				SPT Hammer Energy Ratio		%				Checked AP												
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks			Drill Runs	TCR	Depth (Thickness)	Level (mAOD)	Legend	Description			Scale	Backfill									
106 B 101 ES	0.00 - 1.00 0.20 - 0.30							0.00			Firm brown slightly sandy gravelly silty CLAY. Gravel is angular to subangular fine to coarse of siltstone and sandstone. Sand is fine to medium. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL			0.50										
102 D 103 ES	0.50 - 0.60 0.50 - 0.60							(1.00)								266.63	(1.90)							
107 B	1.00 - 2.00							0.00 - 2.00										100%	1.00					
105 D 104 ES	1.40 - 1.50 1.50 - 1.60		2.00 - 4.00	100%	2.90 (0.50)	264.73	Soft to firm dark grey and grey sandy gravelly silty CLAY with low cobble content. Gravel is angular to subangular fine to coarse of siltstone and sandstone. Cobbles are angular of medium strong fine grained sandstone. Sand is fine to medium. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL			1.00 1.50 2.00														
108 B	2.00 - 2.90											(1.90)	264.23											
109 ES 110 D	2.50 - 2.60 2.60 - 2.70											2.00 - 4.00		100%	2.90 (0.50)	264.23	Recovered as light grey angular to subangular COBBLES of medium strong sandstone with some silty sand. Sand is fine to coarse. (Possible fractured boulder). (MADE GROUND) Geology Code: MGR 2nd Geology Code: CO			2.50 3.00 3.50				
111 B	2.90 - 3.40		2.00 - 4.00	100%	2.90 (0.50)	264.23	Grey to dark grey clayey sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong to strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00 4.50 5.00														
112 ES 113 B	3.50 - 3.60 3.50 - 4.00												2.00 - 4.00									100%	2.90 (0.50)	264.23
115 B	4.00 - 5.00											2.00 - 4.00		100%	2.90 (0.50)	264.23	Grey to dark grey clayey sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong to strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00 4.50 5.00				
114 ES	4.50 - 4.60		2.00 - 4.00	100%	2.90 (0.50)	264.23	Grey to dark grey clayey sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong to strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00 4.50 5.00														
117 B	5.00 - 6.00												2.00 - 4.00									100%	2.90 (0.50)	264.23
116 ES	5.50 - 5.60											2.00 - 4.00		100%	2.90 (0.50)	264.23	Grey to dark grey clayey sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong to strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00 4.50 5.00				
118 B	6.00 - 7.00		2.00 - 4.00	100%	2.90 (0.50)	264.23	Grey to dark grey clayey sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong to strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00 4.50 5.00														
119 ES	6.50 - 6.60												2.00 - 4.00									100%	2.90 (0.50)	264.23
120 B	7.00 - 8.00											2.00 - 4.00		100%	2.90 (0.50)	264.23	Grey to dark grey clayey sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong to strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00 4.50 5.00				
121 ES	7.50 - 7.60		2.00 - 4.00	100%	2.90 (0.50)	264.23	Grey to dark grey clayey sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong to strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00 4.50 5.00														
122 B	8.00 - 9.00												2.00 - 4.00									100%	2.90 (0.50)	264.23
123 ES	8.50 - 8.60											2.00 - 4.00		100%	2.90 (0.50)	264.23	Grey to dark grey clayey sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong to strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00 4.50 5.00				
124 B	9.00 - 10.00		2.00 - 4.00	100%	2.90 (0.50)	264.23	Grey to dark grey clayey sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong to strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00 4.50 5.00														
125 ES	9.50 - 9.60												2.00 - 4.00									100%	2.90 (0.50)	264.23
126 ES	10.00 - 10.20											2.00 - 4.00		100%	2.90 (0.50)	264.23	Grey to dark grey clayey sandy very angular to subangular fine to coarse GRAVEL of mixed lithologies with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of moderately weak siltstone and medium strong to strong sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			4.00 4.50 5.00				
		PID: 0.0ppmv																						
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes													
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks							
0.00	25.00	Water	N/A	0%	25.00	101mm	25.00	177mm																
Remarks Sonic drilling from GL to 25.00m depth.																								
Printed 28/09/2023 08:10																								

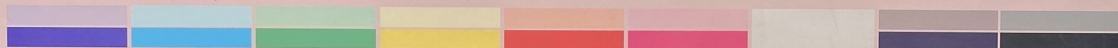
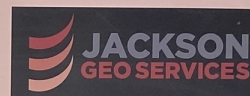
		SONIC DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH231				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Eijkelpamp-Fraste SRS ML Duo				Sheet 2 of 3					
Client		Walters UK Ltd				Method		SNC				Scale 1:50					
Project No		G23012		Level		267.63 mAOD		Inclination		90 degrees		Drilled AM					
Easting		282495.52		Northing		210806.95		SPT Hammer Serial Number				Logged AF					
Termination Reason		Scheduled depth				SPT Hammer Energy Ratio		%				Checked AP					
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks			Drill Runs	TCR	Depth (Thickness)	Level (mAOD)	Legend	Description		Scale	Backfill			
127 B	10.00 - 11.00 10.00		PID: 0.0ppmv			10.00 - 12.00	90%				Dark grey and grey slightly sandy clayey angular to subangular fine to coarse GRAVEL of siltstone with some cobbles. Sand is fine medium. Cobbles are angular of extremely weak siltstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		10.50				
128 ES	11.50 - 11.60 11.50																
129 B	12.50 - 15.00																
130 ES	13.00 - 13.20 13.00		PID: 0.0ppmv			12.00 - 14.00	75%						12.50				
131 ES	14.50 - 14.70 14.50																
132 B	15.00 - 17.00																
133 ES	16.00 - 16.20 16.00		PID: 0.0ppmv			14.00 - 16.00	100%	15.00	252.63		Grey sandy silty angular to subangular fine to coarse GRAVEL of siltstone with some cobbles. Sand is fine to coarse. Cobbles are angular of extremely weak siltstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		15.00				
134 ES	17.50 - 17.70 17.50																
135 B	18.00 - 20.00																
136 ES	20.00 - 20.20		PID: 0.0ppmv			16.00 - 18.00	100%				18.00m - 20.00m Partial recovery. Core loss presumed to be more weathered material.		16.00				
						18.00 - 20.00	50%						17.00				
													17.50				
													18.00				
													18.50				
													19.00				
													19.50				
													20.00				
Continued on next Sheet																	
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	25.00	Water	N/A	0%	25.00	101mm	25.00	177mm									
Remarks																	
Sonic drilling from GL to 25.00m depth.																	

		SONIC DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH231				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Eijkelpamp-Fraste SRS ML Duo				Sheet 3 of 3					
Client		Walters UK Ltd				Method		SNC				Scale 1:50					
Project No		G23012		Level		267.63 mAOD		Inclination		90 degrees		Drilled AM					
Easting		282495.52		Northing		210806.95		SPT Hammer Serial Number				Logged AF					
Termination Reason		Scheduled depth				SPT Hammer Energy Ratio		%				Checked AP					
Samples	Sampling and Testing Depths		Insitu Testing and Depth Related Remarks			Drill Runs	TCR	Depth (Thickness)	Level (mAOD)	Legend	Description		Scale	Backfill			
137 B	20.00		PID: 0.0ppmv			20.00 - 22.00	100%	21.00	246.63		Grey sandy silty angular to subangular fine to coarse GRAVEL of siltstone with some cobbles. Sand is fine to coarse. Cobbles are angular of extremely weak siltstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		20.50				
	21.00 - 22.00										Dark grey slightly sandy clayey angular to subangular fine to coarse GRAVEL of siltstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR		21.00				
138 ES	22.30 - 22.50 22.30		PID: 0.0ppmv			22.00 - 24.00	100%	22.50	245.13		Dark grey silty angular to subangular fine to coarse GRAVEL of siltstone with high cobble content. Sand is fine to medium. Cobbles are angular to subangular of extremely weak siltstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CO 22.50m - 22.70m Frequent fragments of timber.		21.50				
	23.00 - 25.00												22.00				
139 B	23.00 - 25.00		PID: 0.0ppmv			24.00 - 25.00	100%	242.63					22.50				
	24.80 - 25.00 24.80												23.00				
140 ES	24.80 - 25.00 24.80		PID: 0.0ppmv								End of Exploratory Hole at 25.00m		23.50				
													24.00				
															24.50		
															25.00		
															25.50		
															26.00		
															26.50		
															27.00		
															27.50		
															28.00		
															28.50		
															29.00		
															29.50		
															30.00		
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
0.00	25.00	Water	N/A	0%	25.00	101mm	25.00	177mm									
Remarks																	
Sonic drilling from GL to 25.00m depth.																	

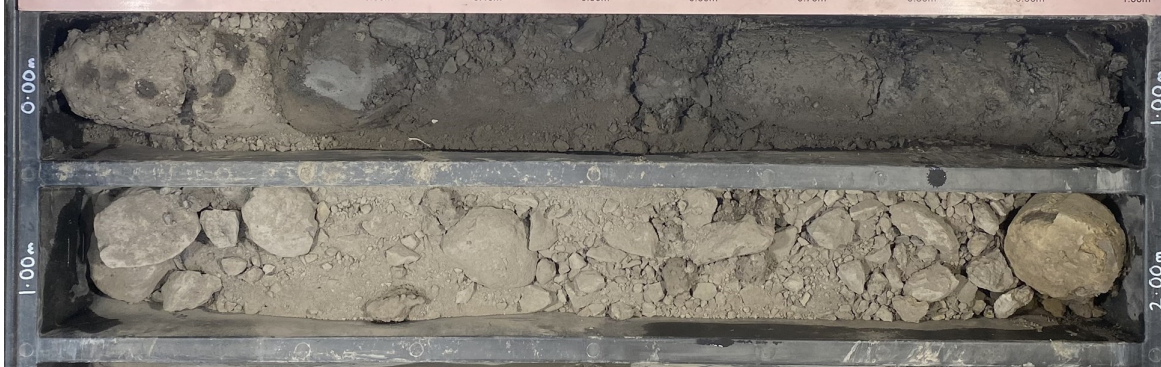
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282495.52	Equipment	Eijkelpamp-Fraste SRS ML Duo	Sheet 1 of 7
Client	Walters UK Ltd	Northing	210806.95	Method	SNC	
Project No	G23012	Level	267.63 mAOD	Termination Reason	Scheduled depth	

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	8 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	0.00 to 2.00	Engineer	RF



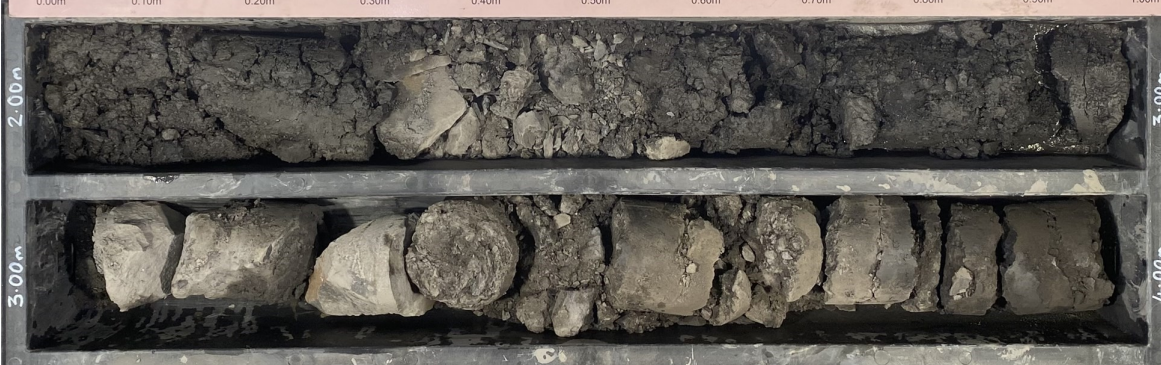
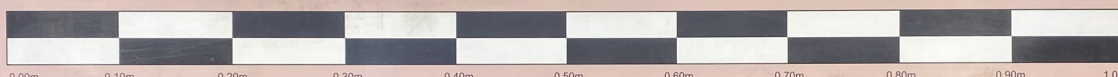
S2-BH231 0.00 m to 2.00 m

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Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	8 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	2.00 to 4.00	Engineer	RF



S2-BH231 2.00 m to 4.00 m

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282495.52	Equipment	Eijkelkamp-Fraste SRS ML Duo	Sheet 2 of 7
Client	Walters UK Ltd	Northing	210806.95	Method	SNC	
Project No	G23012	Level	267.63 mAOD	Termination Reason	Scheduled depth	

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Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

8 JUNE 2023

Exploratory Hole Number

S2-BH231

Box / Face Number

Depth (m) from

4.00 to 6.00

Engineer

RF



4.00m



5.00m

5.00m

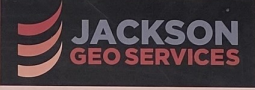


6.00m

S2-BH231 4.00 m to 6.00 m

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Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

8 JUNE 2023

Exploratory Hole Number

S2-BH231

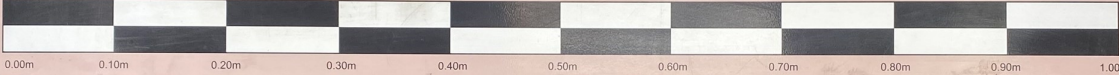
Box / Face Number

Depth (m) from

6.00 to 8.00

Engineer

RF



6.00m



7.00m

7.00m



8.00m

S2-BH231 6.00 m to 8.00 m