

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m. Dynamic sampling from 1.20m to 6.20m. Rotary coring from 6.20m to 30.40m.	Exploratory Hole S1-BH112
Project	Global Centre of Rail Excellence	Easting	284882.07	Equipment	Commachio 305/Insulated Digging Tools
Client	Walters UK Limited	Northing	210599.97	Method	RC/IP/DS
Project No	G22069	Level	237.94 mAOD	Termination Reason	Scheduled depth

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S1-BH112 24.90 m to 26.40 m



S1-BH112 26.40 m to 27.90 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m. Dynamic sampling from 1.20m to 6.20m. Rotary coring from 6.20m to 30.40m.	Exploratory Hole S1-BH112
Project	Global Centre of Rail Excellence	Easting	284882.07	Equipment	Commachio 305/Insulated Digging Tools
Client	Walters UK Limited	Northing	210599.97	Method	RC/IP/DS
Project No	G22069	Level	237.94 mAOD	Termination Reason	Scheduled depth

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S1-BH112 27.90 m to 29.40 m



S1-BH112 29.40 m to 30.40 m



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S1-BH113	
21/11/2022 11:28	0.00				
21/11/2022 16:00	8.00	6.50	3.10	Sheet 1 of 6	
22/11/2022 08:30	8.00	6.00	3.10		
22/11/2022 17:00	12.50	10.50	10.80	Scale	1:25
23/11/2022 08:30	12.50	10.50	3.10	Drilled	DG
23/11/2022 16:43	30.00	10.50	25.50	Logged	JJ
24/11/2022 08:30	30.00	10.50	7.50	Checked	

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
9.00	30.00	Air/Mist	dark grey	100%	30.00	146mm	10.50	160mm			21/11/2022 14:30	3.00	4.00		3.20	20mins	
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Wireline Double Tube		Core Barrel Length			1.50	

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		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S1-BH113				
Project		Global Centre of Rail Excellence			Equipment		Commachio 305			Sheet 4 of 6							
Client		Walters UK Limited			Method		IP/WLS/RC			Scale		1:25					
Project No		G22069		Level		236.95 mAOD		Inclination		90 degrees		Drilled		DG			
Easting		284799.55		Northing		210645.61		SPT Hammer Serial Number		JD07		Logged		JJ			
Termination Reason		Scheduled depth			SPT Hammer Energy Ratio		61 %			Checked							
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Drill Runs	TCR SCR RQD	Depth (Thickness)	Level (mAOD)	Legend	Description			If (min ave max)	Scale	Backfill		
121 C	15.39 - 15.50						(2.13)			Medium strong to strong thinly locally medium bedded light grey and grey fine grained SANDSTONE with rare sub-ordinate beds of very weak dark grey siltstone (<15-40mm thickness). Weathering: localised zones of increased fracture spacing and loss of strength in weaker material. Discontinuities: sub-horizontal to 15 degree very closely to medium spaced planar and undulating smooth tight bedding fractures, locally infilled with <1mm silty fine sand. (SOUTH WALES LOWER COAL MEASURES) Geology Code: SWCM 2nd Geology Code: SST			90	15.50			
123 C	15.58 - 15.70																230
122 C	16.12 - 16.27				RC 15.50 - 17.00	100% 85% 55%	17.00	219.95	17.00	Set 1 NI 40 80	17.00						
				RC 17.00 - 18.50	100% 86% 9%	(1.22)		18.22	218.73		Set 1 NI 130 190	18.50					
						(0.48)											
						18.70	218.25				Set 1 NI 90 230	19.00					
				RC 18.50 - 20.00	100% 67% 27%	(0.94)											
						19.64	217.31				Set 1 NI 65 130	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
9.00	30.00	Air/Mist	dark grey	100%	30.00	146mm	10.50	160mm			21/11/2022 14:30	3.00	4.00		3.20	20mins	
Drill Bit Type		PCD		Drill Bit Condition		Good		Core Barrel Type		Wireline Double Tube		Core Barrel Length		1.50			
Remarks																	
Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to X.XXm depth. Rotary coring from X.XXm to X.XXm depth.																	
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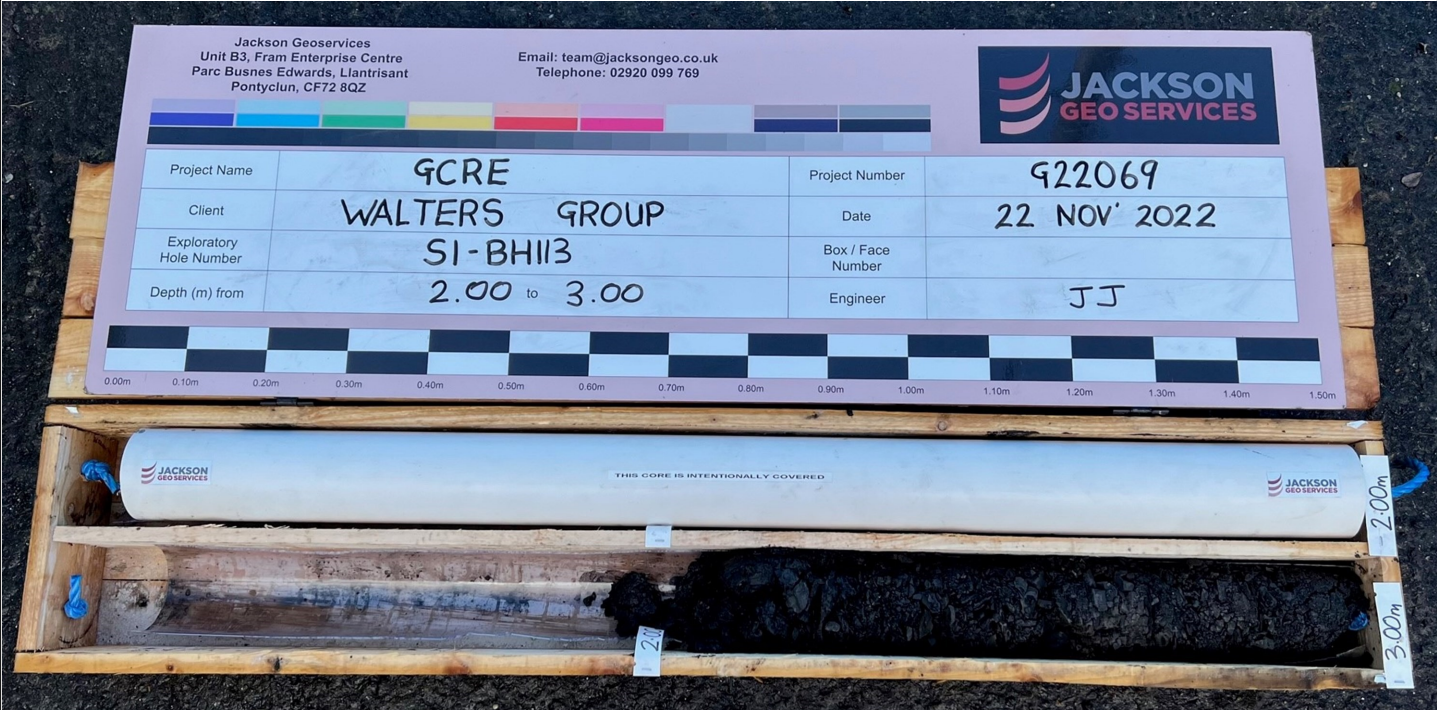
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		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to X.XXm depth. Rotary coring from X.XXm to X.XXm depth.		Exploratory Hole S1-BH113
Project	Global Centre of Rail Excellence	Easting	284799.55	Equipment	Commachio 305	Sheet 1 of 12
Client	Walters UK Limited	Northing	210645.61	Method	IP/WLS/RC	
Project No	G22069	Level	236.95 mAOD	Termination Reason	Scheduled depth	



S1-BH113 1.20 m to 2.00 m



S1-BH113 2.00 m to 3.00 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to X.XXm depth. Rotary coring from X.XXm to X.XXm depth.		Exploratory Hole S1-BH113
Project	Global Centre of Rail Excellence	Easting	284799.55	Equipment	Commachio 305	Sheet 2 of 12
Client	Walters UK Limited	Northing	210645.61	Method	IP/WLS/RC	
Project No	G22069	Level	236.95 mAOD	Termination Reason	Scheduled depth	

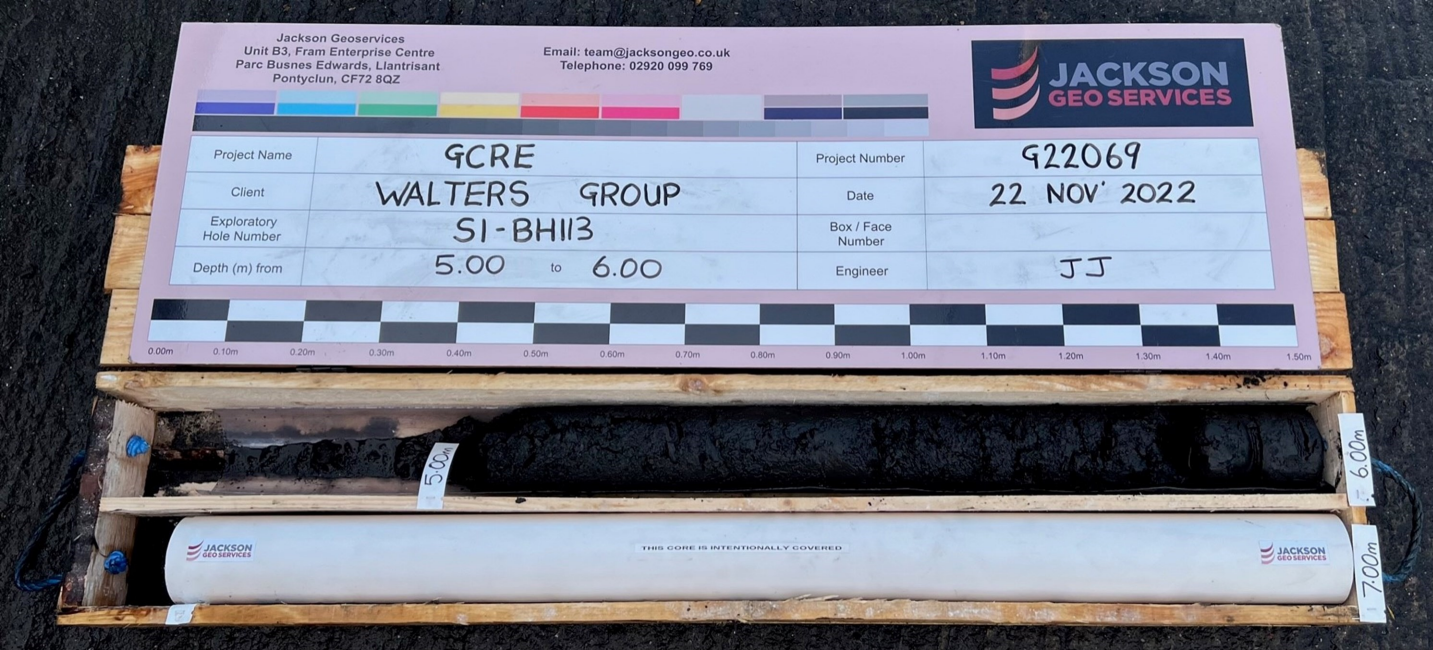


S1-BH113 3.00 m to 4.00 m



S1-BH113 4.00 m to 5.00 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to X.XXm depth. Rotary coring from X.XXm to X.XXm depth.		Exploratory Hole S1-BH113
Project	Global Centre of Rail Excellence	Easting	284799.55	Equipment	Commachio 305	Sheet 3 of 12
Client	Walters UK Limited	Northing	210645.61	Method	IP/WLS/RC	
Project No	G22069	Level	236.95 mAOD	Termination Reason	Scheduled depth	



S1-BH113 5.00 m to 6.00 m



S1-BH113 6.00 m to 7.00 m

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to X.XXm depth. Rotary coring from X.XXm to X.XXm depth.		Exploratory Hole S1-BH113
Project	Global Centre of Rail Excellence	Easting	284799.55	Equipment	Commachio 305	Sheet 4 of 12
Client	Walters UK Limited	Northing	210645.61	Method	IP/WLS/RC	
Project No	G22069	Level	236.95 mAOD	Termination Reason	Scheduled depth	



S1-BH113 7.00 m to 8.00 m



S1-BH113 8.00 m to 9.00 m