

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH231
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282495.52	Equipment	Eijkelkamp-Fraste SRS ML Duo	Sheet 3 of 7
Client	Walters UK Ltd	Northing	210806.95	Method	SNC	
Project No	G23012	Level	267.63 mAOD	Termination Reason	Scheduled depth	

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



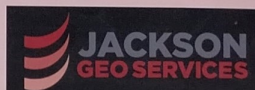
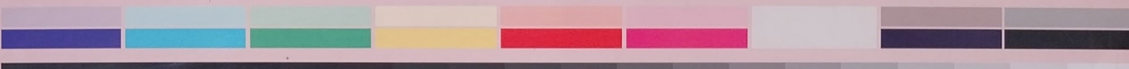

Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	8 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	8.00 to 10.00	Engineer	RF




S2-BH231 8.00 m to 10.00 m

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769

Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	9 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	10.00 to 12.00	Engineer	KW




S2-BH231 10.00 m to 12.00 m

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

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksonge.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	9 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	12.00 to 14.00	Engineer	KW





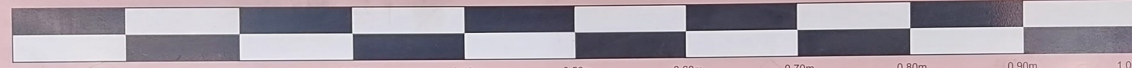
S2-BH231 12.00 m to 14.00 m

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksonge.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	9 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	14.00 to 16.00	Engineer	KW


S2-BH231 14.00 m to 16.00 m

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole S2-BH231	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282495.52	Equipment	Eijkelkamp-Fraste SRS ML Duo
Client	Walters UK Ltd	Northing	210806.95	Method	SNC
Project No	G23012	Level	267.63 mAOD	Termination Reason	Scheduled depth

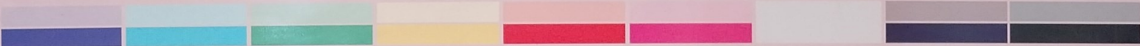
Sheet 5 of 7

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	9 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	16.00 to 18.00	Engineer	KW

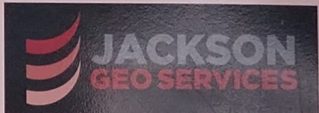





S2-BH231 16.00 m to 18.00 m

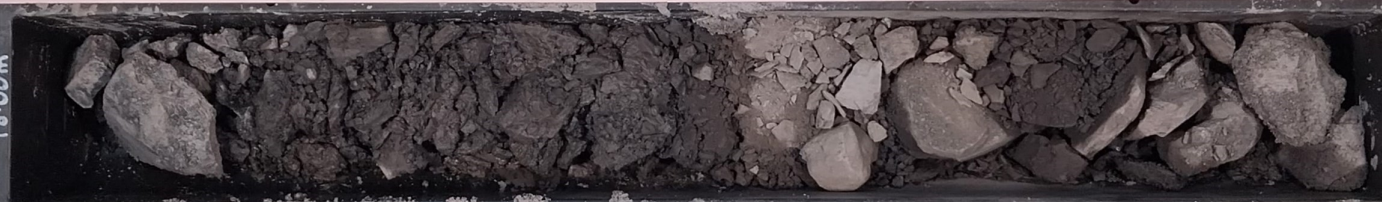
Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	9 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	18.00 to 20.00	Engineer	KW





S2-BH231 18.00 m to 20.00 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH231
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282495.52	Equipment	Eijkelkamp-Fraste SRS ML Duo	Sheet 6 of 7
Client	Walters UK Ltd	Northing	210806.95	Method	SNC	
Project No	G23012	Level	267.63 mAOD	Termination Reason	Scheduled depth	

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksonge.co.uk
Telephone: 02920 099 769





Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	9 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	20.00 to 22.00	Engineer	Kw





S2-BH231 20.00 m to 22.00 m

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksonge.co.uk
Telephone: 02920 099 769





Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	9 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	22.00 to 24.00	Engineer	Kw



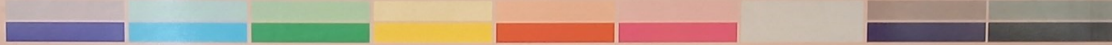


S2-BH231 22.00 m to 24.00 m

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

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	9 JUNE 2023
Exploratory Hole Number	S2-BH231	Box / Face Number	
Depth (m) from	24.00 to 25.00	Engineer	KW



S2-BH231 24.00 m to 25.00 m



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH232	
19/05/2023 13:35	0.00				
19/05/2023 17:00	6.00	6.00	6.00	Sheet 1 of 6	
22/05/2023 08:00	6.00	6.00	3.80	Scale	1:25
22/05/2023 17:00	18.00	10.50	3.80	Drilled	CJ
23/05/2023 08:00	18.00	10.50	3.00	Logged	AF
23/05/2023 17:12	25.50	10.50	3.00	Checked	AP

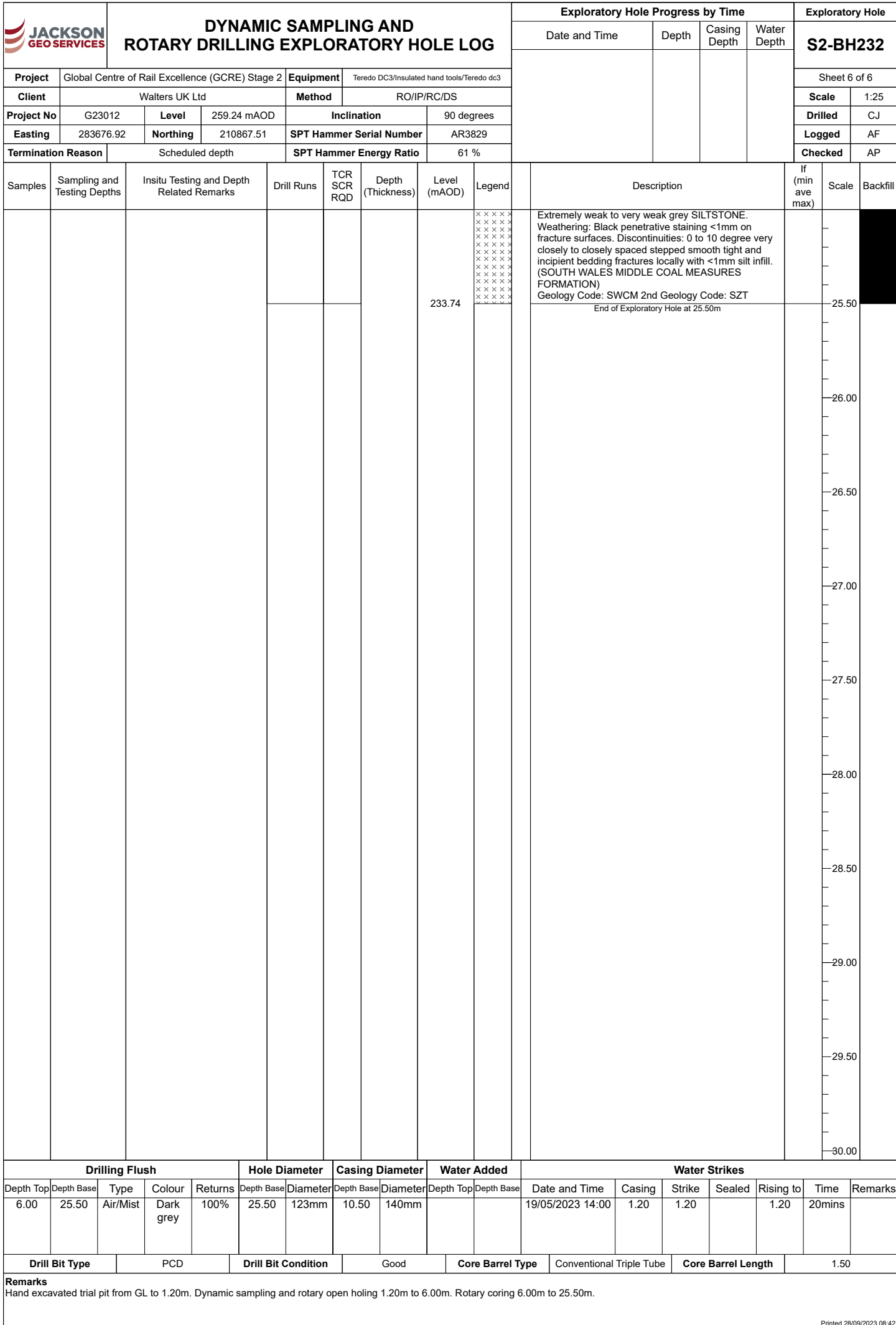
Drilling Flush					Hole Diameter		Casing Diameter		Water Added		Water Strikes						
Depth Top	Depth Base	Type	Colour	Returns	Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Date and Time	Casing	Strike	Sealed	Rising to	Time	Remarks
6.00	25.50	Air/Mist	Dark grey	100%	25.50	123mm	10.50	140mm			19/05/2023 14:00	1.20	1.20		1.20	20mins	
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Triple Tube		Core Barrel Length			1.50	

Printed 28/09/2023 08:42

Printed 28/09/2023 08:42

Printed 28/09/2023 08:42

Printed 28/09/2023 08:42



Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283676.92	Equipment	Teredo DC3/Insulated hand tools/ Teredo dc3	Sheet 1 of 8
Client	Walters UK Ltd	Northing	210867.51	Method	RO/IP/RC/DS	
Project No	G23012	Level	259.24 mAOD	Termination Reason	Scheduled depth	

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769





Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	23 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	1.80 to 2.80	Engineer	RF





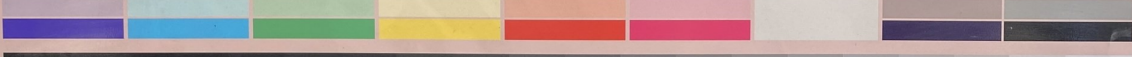


S2-BH232 1.80 m to 2.80 m

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769





Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	23 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	3.20 to 4.20	Engineer	RF







S2-BH232 3.20 m to 4.20 m

		EXPLORATORY HOLE PHOTOGRAPHS			Exploratory Hole
					S2-BH232
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283676.92	Equipment	Teredo DC3/Insulated hand tools/ Teredo dc3
Client	Walters UK Ltd	Northing	210867.51	Method	RO/IP/RC/DS
Project No	G23012	Level	259.24 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 8

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

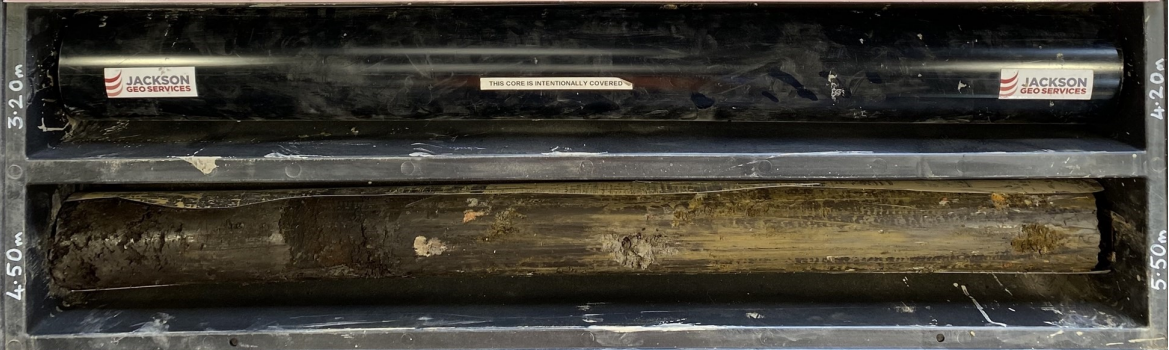
Email: team@jacksongeo.co.uk
Telephone: 02920 099 769





Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	23 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	4.50 to 5.50	Engineer	RF





S2-BH232 4.50 m to 5.50 m

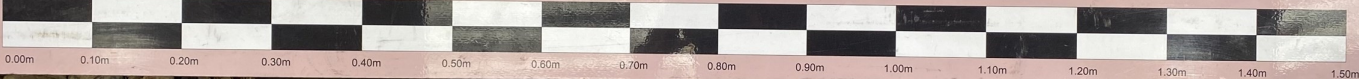
Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769





Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	23 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	6.00 to 7.50	Engineer	RF





S2-BH232 6.00 m to 7.50 m

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH232
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283676.92	Equipment	Teredo DC3/Insulated hand tools/ Teredo dc3	
Client	Walters UK Ltd	Northing	210867.51	Method	RO/IP/RC/DS	
Project No	G23012	Level	259.24 mAOD	Termination Reason	Scheduled depth	

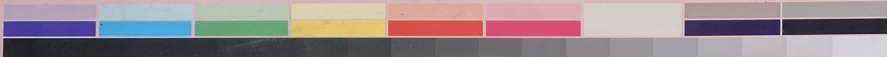
Sheet 3 of 8

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	23 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	7.50 to 9.00	Engineer	RF






S2-BH232 7.50 m to 9.00 m

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	23 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	9.00 to 10.50	Engineer	RF






S2-BH232 9.00 m to 10.50 m

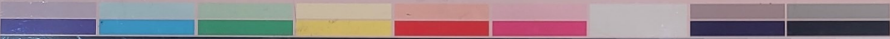
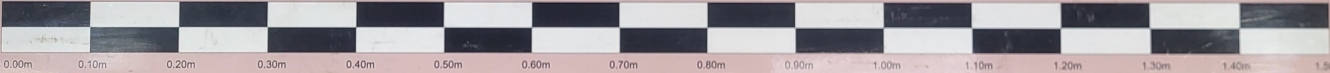
		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH232
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283676.92	Equipment	Teredo DC3/Insulated hand tools/ Teredo dc3	Sheet 4 of 8
Client	Walters UK Ltd	Northing	210867.51	Method	RO/IP/RC/DS	
Project No	G23012	Level	259.24 mAOD	Termination Reason	Scheduled depth	

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



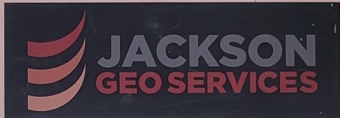
Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	24 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	10.50 to 12.00	Engineer	RF

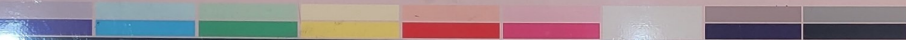

S2-BH232 10.50 m to 12.00 m

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	24 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	12.00 to 13.50	Engineer	RF



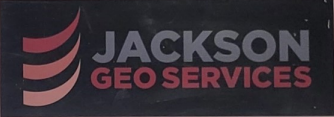


S2-BH232 12.00 m to 13.50 m

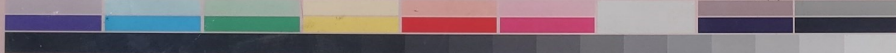
		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH232
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283676.92	Equipment	Teredo DC3/Insulated hand tools/ Teredo dc3	Sheet 5 of 8
Client	Walters UK Ltd	Northing	210867.51	Method	RO/IP/RC/DS	
Project No	G23012	Level	259.24 mAOD	Termination Reason	Scheduled depth	

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	24 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	13.50 to 15.00	Engineer	RF

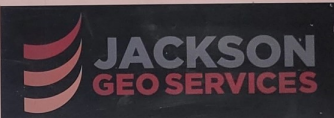




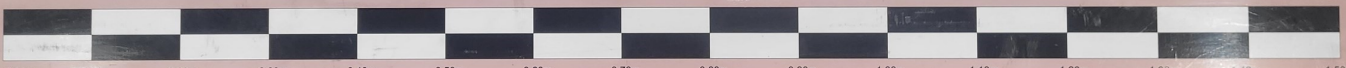
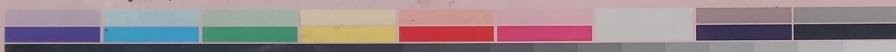
S2-BH232 13.50 m to 15.00 m

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	24 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	15.00 to 16.50	Engineer	RF





S2-BH232 15.00 m to 16.50 m

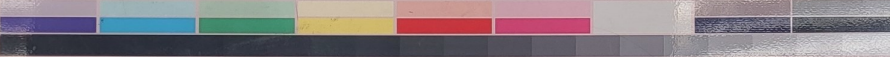
		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH232
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283676.92	Equipment	Teredo DC3/Insulated hand tools/ Teredo dc3	Sheet 6 of 8
Client	Walters UK Ltd	Northing	210867.51	Method	RO/IP/RC/DS	
Project No	G23012	Level	259.24 mAOD	Termination Reason	Scheduled depth	

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	24 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	16.50 to 18.00	Engineer	RF

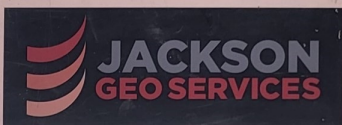




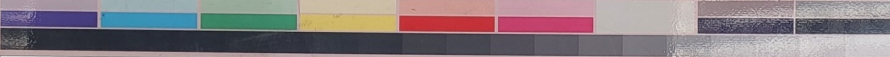
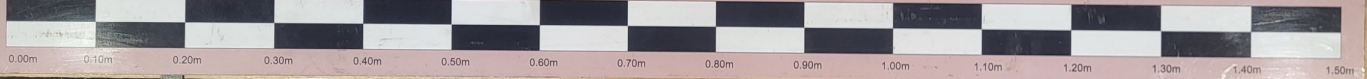

S2-BH232 16.50 m to 18.00 m

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	24 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	18.00 to 19.50	Engineer	RF



S2-BH232 18.00 m to 19.50 m

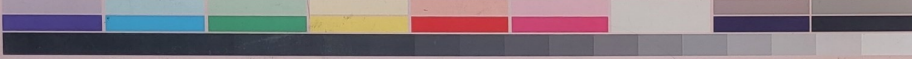
		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH232
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283676.92	Equipment	Teredo DC3/Insulated hand tools/ Teredo dc3	Sheet 7 of 8
Client	Walters UK Ltd	Northing	210867.51	Method	RO/IP/RC/DS	
Project No	G23012	Level	259.24 mAOD	Termination Reason	Scheduled depth	

Jackson Geoservices
 Unit B3, Fram Enterprise Centre
 Parc Busnes Edwards, Llantrisant
 Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
 Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	24 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	19.50 to 21.00	Engineer	RF





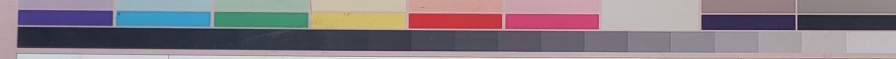
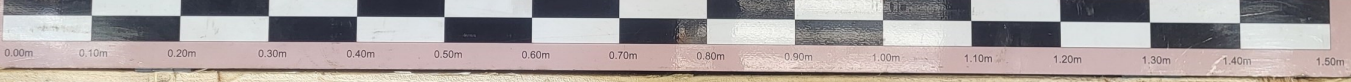
S2-BH232 19.50 m to 21.00 m

Jackson Geoservices
 Unit B3, Fram Enterprise Centre
 Parc Busnes Edwards, Llantrisant
 Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
 Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	24 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	21.00 to 22.50	Engineer	RF


S2-BH232 21.00 m to 22.50 m

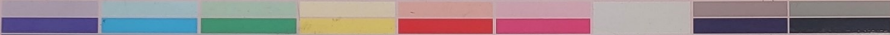
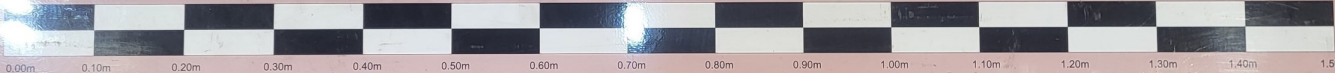
		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH232
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283676.92	Equipment	Teredo DC3/Insulated hand tools/ Teredo dc3	Sheet 8 of 8
Client	Walters UK Ltd	Northing	210867.51	Method	RO/IP/RC/DS	
Project No	G23012	Level	259.24 mAOD	Termination Reason	Scheduled depth	

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	24 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	22.50 to 24.00	Engineer	RF



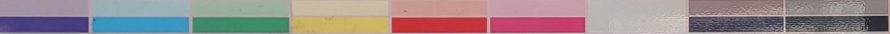
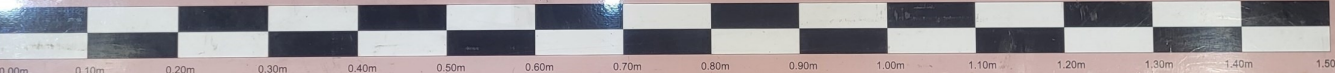
S2-BH232 22.50 m to 24.00 m

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	24 MAY 2023
Exploratory Hole Number	S2-BH232	Box / Face Number	
Depth (m) from	24.00 to 25.50	Engineer	RF



S2-BH232 24.00 m to 25.50 m



Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time	Depth	Casing Depth	Water Depth	S2-BH233	
05/04/2023 12:00	0.00	0.00	6.00	Sheet 1 of 6	
05/04/2023 17:00	6.00	6.00		Scale	1:25
06/04/2023 08:00	6.00	6.00		6.00	Drilled
06/04/2023 17:00	13.50	13.50	13.50	Logged	AF
11/04/2023 08:00	13.50	13.50	13.50	Checked	AP
11/04/2023 17:00	25.25	25.00	25.00		

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
4.70	25.00	Air/Mist	N/A	0%	25.00	168mm	25.00	168mm									
					25.25	51mm											
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length		

Printed 28/09/2023 08:42

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH233				
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	Toredo C38/Insulated Hand Tools											Sheet 2 of 6	
Client	Walters UK Ltd			Method	DS/IP/RO											Scale	1:25
Project No	G23012	Level	254.92 mAOD	Inclination		90 degrees										Drilled	CJ
Easting	281481.77	Northing	210789.20	SPT Hammer Serial Number		AR3829										Logged	AF
Termination Reason		Scheduled depth		SPT Hammer Energy Ratio		61 %										Checked	AP
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				
8 D	6.00 - 6.45	SPT(S) N=18 (7.5/1.4,6.7) Casing: 3.00 Water: Damp		RO 4.70 - 6.20	0% 0% 0%				NO RECOVERY. Colliery spoil backfill (Driller's description) (MADE GROUND)			5.50					
	6.20																
9 C	7.00 - 7.45			RO 6.20 - 7.70	0% 0% 0%							6.00					
												6.50					
												7.00					
												7.50					
												8.00					
												8.50					
												9.00					
10 D	9.00	SPT(S) N=46 (25 for 125mm/8.9,13,16) Casing: 9.00 Water: Damp										9.50					
	9.20 - 9.65																
				RO 9.20 - 10.70	0% 0% 0%							10.00					
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
4.70	25.00	Air/Mist	N/A	0%	25.00	168mm 51mm	25.00	168mm									
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length		
Remarks Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to 4.70m depth. Rotary open holing 4.70m to 25.00m depth. Extended via CPT from 25.00m to 25.25m.																	
Printed 28/09/2023 08:42																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH233				
Project		Global Centre of Rail Excellence (GCRE) Stage 2				Equipment		Toredo C38/Insulated Hand Tools				Sheet 3 of 6					
Client		Walters UK Ltd				Method		DS/IP/RO				Scale 1:25					
Project No		G23012		Level		254.92 mAOD		Inclination		90 degrees		Drilled CJ					
Easting		281481.77		Northing		210789.20		SPT Hammer Serial Number		AR3829		Logged AF					
Termination Reason		Scheduled depth				SPT Hammer Energy Ratio		61 %				Checked AP					
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		
		SPT(C) N=50 (5,8/50 for 245mm) Casing: 9.00 Water: Damp									NO RECOVERY. Colliery spoil backfill (Driller's description) (MADE GROUND)						
	13.50					RO 10.70 - 12.20	0% 0% 0%										
						RO 12.20 - 13.50	0% 0% 0%										
						RO 13.50 - 15.00	0% 0% 0%										
	15.00							(20.30)									
															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
4.70	25.00	Air/Mist	N/A	0%	25.00 25.25	168mm 51mm	25.00	168mm									
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length		
Remarks																	
Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to 4.70m depth. Rotary open holing 4.70m to 25.00m depth. Extended via CPT from 25.00m to 25.25m.																	
Printed 28/09/2023 08:42																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole					
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH233				
Project		Global Centre of Rail Excellence (GCRE) Stage 2			Equipment		Toredo C38/Insulated Hand Tools				Sheet 4 of 6						
Client		Walters UK Ltd			Method		DS/IP/RO				Scale	1:25					
Project No		G23012		Level	254.92 mAOD		Inclination		90 degrees		Drilled	CJ					
Easting		281481.77		Northing	210789.20		SPT Hammer Serial Number		AR3829		Logged	AF					
Termination Reason		Scheduled depth			SPT Hammer Energy Ratio		61 %				Checked	AP					
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			
		SPT(C) N=50 (7,15/50 for 230mm) Casing: 15.00 Water: Damp								NO RECOVERY. Colliery spoil backfill (Driller's description) (MADE GROUND)							
	16.50	SPT(C) N=48 (25 for 40mm/30,6,6,6) Casing: 16.50 Water: Damp			RO 15.00 - 16.50	0% 0% 0%											
	18.00	SPT(C) N=50 (25 for 85mm/50 for 245mm) Casing: 18.00 Water: Damp			RO 16.50 - 18.00	0% 0% 0%											
	19.50	SPT(C) N=50 (10,12/50 for 265mm) Casing: 19.50 Water: Damp			RO 18.00 - 19.50	0% 0% 0%											
										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
4.70	25.00	Air/Mist	N/A	0%	25.00	168mm 51mm	25.00	168mm									
Drill Bit Type					Drill Bit Condition				Core Barrel Type					Core Barrel Length			
Remarks																	
Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to 4.70m depth. Rotary open holing 4.70m to 25.00m depth. Extended via CPT from 25.00m to 25.25m.																	
Printed 28/09/2023 08:42																	

		DYNAMIC SAMPLING AND ROTARY DRILLING EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time				Exploratory Hole						
								Date and Time		Depth	Casing Depth	Water Depth	S2-BH233					
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	Toredo C38/Insulated Hand Tools					Sheet 5 of 6								
Client	Walters UK Ltd			Method	DS/IP/RO					Scale	1:25							
Project No	G23012		Level	254.92 mAOD		Inclination	90 degrees				Drilled	CJ						
Easting	281481.77		Northing	210789.20		SPT Hammer Serial Number	AR3829				Logged	AF						
Termination Reason		Scheduled depth			SPT Hammer Energy Ratio		61 %				Checked	AP						
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					
	21.00	SPT(C) N=50 (25 for 50mm/50 for 180mm) Casing: 21.00 Water: Damp		RO 19.50 - 21.00	0% 0% 0%				NO RECOVERY. Colliery spoil backfill (Driller's description) (MADE GROUND)									
	22.50	SPT(C) N=50 (25 for 125mm/50 for 190mm) Casing: 22.50 Water: Damp		RO 21.00 - 22.50	0% 0% 0%													
	24.00	SPT(C) N=50 (10,12/50 for 275mm) Casing: 24.00 Water: Damp		RO 22.50 - 24.00	0% 0% 0%													
	25.00			RO 24.00 - 25.00	0% 0% 0%	25.00	229.92		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	
4.70	25.00	Air/Mist	N/A	0%	25.00	168mm 25.25	25.00	168mm										
Drill Bit Type					Drill Bit Condition					Core Barrel Type					Core Barrel Length			
Remarks Hand excavated inspection pit from GL to 1.20m depth. Dynamic sampling from 1.20m to 4.70m depth. Rotary open holing 4.70m to 25.00m depth. Extended via CPT from 25.00m to 25.25m.																		
Printed 28/09/2023 08:42																		

Printed 28/09/2023 08:42

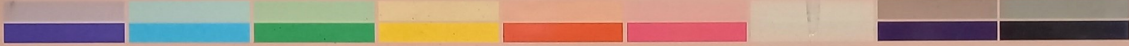
		EXPLORATORY HOLE PHOTOGRAPHS			Exploratory Hole
					S2-BH233
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	281481.77	Equipment	Toredo C38/Insulated Hand Tools
Client	Walters UK Ltd	Northing	210789.20	Method	DS/IP/RO
Project No	G23012	Level	254.92 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 2

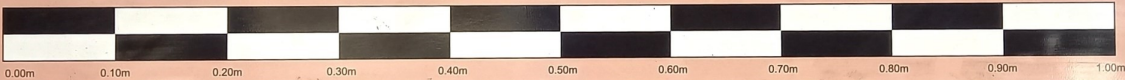
Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769





Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	11 APRIL 2023
Exploratory Hole Number	S2-BH233	Box / Face Number	
Depth (m) from	1.20 to 2.20	Engineer	A







S2-BH233 1.20 m to 2.20 m

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

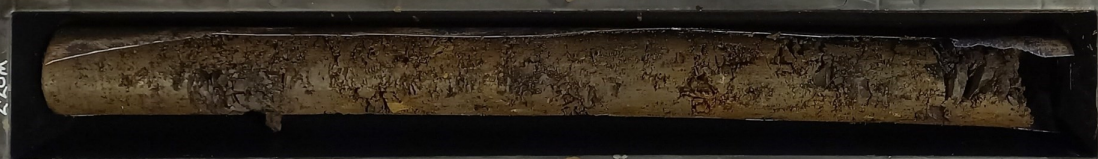
Email: team@jacksongeo.co.uk
Telephone: 02920 099 769





Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	11 APRIL 2023
Exploratory Hole Number	S2-BH233	Box / Face Number	
Depth (m) from	2.20 to 3.20	Engineer	A







S2-BH233 2.20 m to 3.20 m



EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-BH233

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	281481.77	Equipment	Toredo C38/Insulated Hand Tools
Client	Walters UK Ltd	Northing	210789.20	Method	DS/IP/RO
Project No	G23012	Level	254.92 mAOD	Termination Reason	Scheduled depth

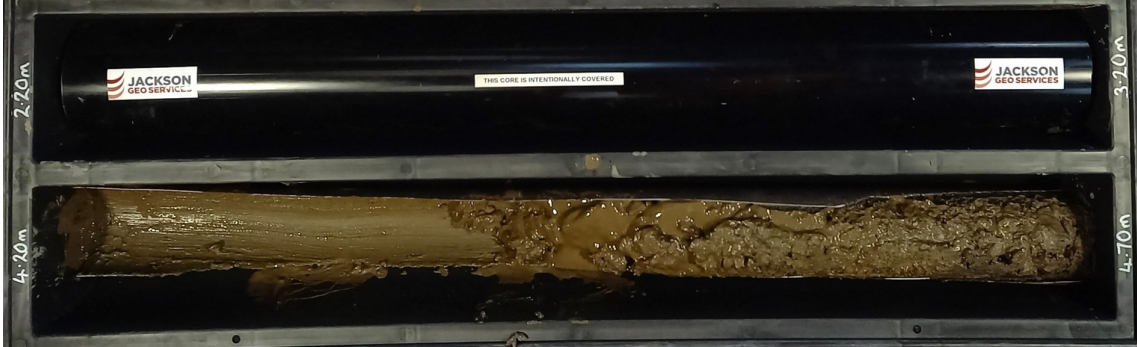
Sheet 2 of 2

Jackson Geoservices
Unit B3, Fram Enterprise Centre
Parc Busnes Edwards, Llantrisant
Pontyclun, CF72 8QZ

Email: team@jacksongeo.co.uk
Telephone: 02920 099 769



Project Name	GCRE STAGE 2	Project Number	G23012
Client	WALTERS GROUP	Date	11 APRIL 2023
Exploratory Hole Number	S2-BH233	Box / Face Number	
Depth (m) from	4.20 to 4.70	Engineer	A



S2-BH233 4.20 m to 4.70 m

Exploratory Hole Progress by Time				Exploratory Hole	
Date and Time		Depth	Casing Depth	Water Depth	S2-BH235 Sheet 1 of 3 Scale 1:25 Drilled CJ Logged AF Checked AP
18/04/2023 08:00		0.00	0.00	4.50	
18/04/2023 17:00		15.00	7.50		

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
7.50	15.00	Air/Mist	Brown	100%	6.00 15.00	152mm 146mm	6.00 9.00	152mm 146mm			18/04/2023 12:30	4.50	5.00	6.00	4.50	20mins	
Drill Bit Type		PCD			Drill Bit Condition		Good		Core Barrel Type		Conventional Double Tube		Core Barrel Length			1.50	

Printed 28/09/2023 08:45

Printed 28/09/2023 08:45

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-BH235
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282985.15	Equipment	Teredo C38/Insulated hand tools	Sheet 1 of 4
Client	Walters UK Ltd	Northing	210605.86	Method	RC/RO/DS/IP	
Project No	G23012	Level	258.40 mAOD	Termination Reason	Scheduled depth	

Jackson Geoservices

Unit B3, Fram Enterprise Centre

Parc Busnes Edwards, Llantrisant

Pontyclun, CF72 8QZ

Email: team@jacksonge.co.uk

Telephone: 02920 099 769



Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

19 APRIL 2023

Exploratory Hole Number

S2-BH235

Box / Face Number

Depth (m) from

1.20 to 2.20

Engineer

A

0.00m0.10m0.20m0.30m0.40m0.50m0.60m0.70m0.80m0.90m1.00m

1.20m2.20m



2.20m3.20m



S2-BH235 1.20 m to 2.20 m

Jackson Geoservices

Unit B3, Fram Enterprise Centre

Parc Busnes Edwards, Llantrisant

Pontyclun, CF72 8QZ

Email: team@jacksonge.co.uk

Telephone: 02920 099 769



Project Name

GCRE STAGE 2

Project Number

G23012

Client

WALTERS GROUP

Date

19 APRIL 2023

Exploratory Hole Number

S2-BH235

Box / Face Number

Depth (m) from

2.20 to 3.20

Engineer

A

0.00m0.10m0.20m0.30m0.40m0.50m0.60m0.70m0.80m0.90m1.00m

2.20m3.20m



3.20m4.20m



S2-BH235 2.20 m to 3.20 m