

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP2117

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282042.34	Equipment	JCB 220X lc	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210358.00	Method	TP	
Project No	G23012	Level	248.14 mAOD	Termination Reason	Scheduled depth	



S2-TP2117 Face A



S2-TP2117 Pre Excavation

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP2117

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282042.34	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210358.00	Method	TP	
Project No	G23012	Level	248.14 mAOD	Termination Reason	Scheduled depth	



S2-TP2117 Face B

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP212
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282335.87	Equipment	JCB 220X 1c	Sheet 1 of 4
Client	Walters UK Ltd	Northing	211478.06	Method	TP	
Project No	G23012	Level	312.24 mAOD	Termination Reason	Terminated due to collapse	



S2-TP212 Face D



S2-TP212 Face C

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole S2-TP212	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282335.87	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211478.06	Method	TP
Project No	G23012	Level	312.24 mAOD	Termination Reason	Terminated due to collapse

Sheet 2 of 4



S2-TP212 Face B



S2-TP212 Spoil

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP212
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282335.87	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	211478.06	Method	TP	
Project No	G23012	Level	312.24 mAOD	Termination Reason	Terminated due to collapse	

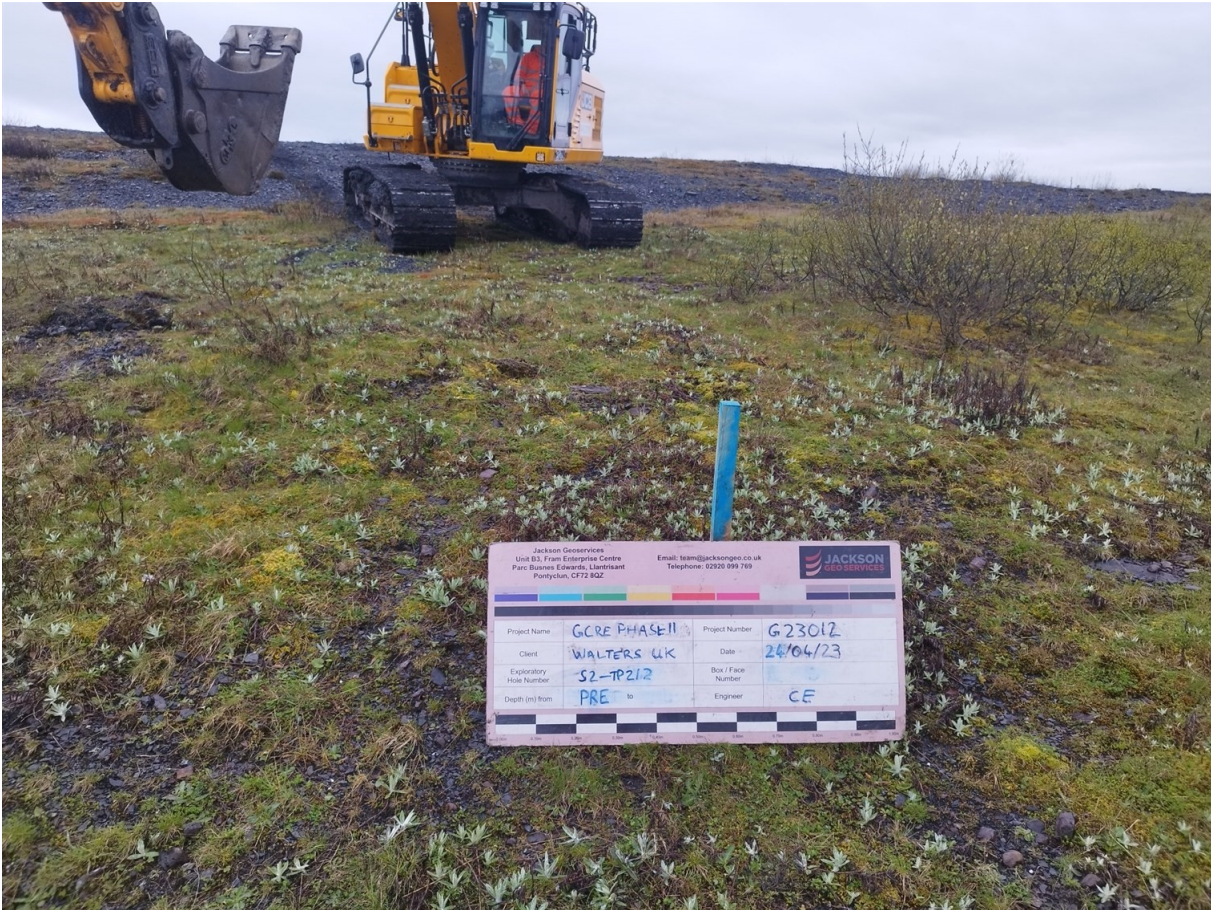


S2-TP212 Post Excavation



S2-TP212 Face A

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP212
Project	Global Centre of Rail Excellence (GCRC) Stage 2	Easting	282335.87	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	211478.06	Method	TP	
Project No	G23012	Level	312.24 mAOD	Termination Reason	Terminated due to collapse	



S2-TP212 Pre Excavation

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole		
							Date and Time		Depth	Water Depth	S2-TP2122	
							12/04/2023 13:30 12/04/2023 13:55		0.00 2.50			
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	JCB 220X Ic			Sheet 1 of 1				
Client	Walters UK Ltd			Method	TP			Scale	1:20			
Project No	G23012	Level	223.34 mAOD	Orientation		130 degrees		Logged	AE			
Easting	283741.63	Northing	210289.66	Length		3.80		Checked	AP			
Termination Reason		Terminated due to water ingress and collapse			Width		0.70					
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill			
1 ES 2 B	0.20 - 0.30 0.20 - 0.40			0.00 (0.40)	222.94		Dark grey very gravelly silty fine to coarse SAND with low cobble content. Gravel is subangular to subrounded fine to coarse of siltstone, mudstone and coal. Cobbles are subangular of medium strong siltstone. Occasional timber fragments (up to 40mm) (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
3 ES	0.50 - 0.60			0.40			Dark grey sandy angular fine to coarse GRAVEL siltstone and mudstone, with medium cobble content. Cobbles are angular of moderately weak to medium strong siltstone and weak mudstone(120x65x40mm) with frequent orangish brown staining. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
4 ES 5 B	0.90 - 1.00 1.00 - 1.20											
6 ES 7 B	1.90 2.00 - 2.20											
				(2.10)								
			220.84				End of Exploratory Hole at 2.50m					
Weather		Rain	Trial Pit Excavation Onsite Layout 				Water Strikes					
Shoring		None					Date and Time		Strike	Rising to	Time	Remarks
Stability		Collapse Face A and C 0.40-2.50m.					12/04/2023 13:35		2.00	2.00	20mins	
Remarks Machine excavated trial pit from GL to 2.50m												

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2122
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283741.63	Equipment	JCB 220X 1c	Sheet 1 of 4
Client	Walters UK Ltd	Northing	210289.66	Method	TP	
Project No	G23012	Level	223.34 mAOD	Termination Reason	Terminated due to water ingress and collapse	



S2-TP2122 Spoil



S2-TP2112 Face A

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole S2-TP2122	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283741.63	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210289.66	Method	TP
Project No	G23012	Level	223.34 mAOD	Termination Reason	Terminated due to water ingress and collapse



S2-TP2112 Post excavation



S2-TP2122 Post excavation

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283741.63	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210289.66	Method	TP	
Project No	G23012	Level	223.34 mAOD	Termination Reason	Terminated due to water ingress and collapse	



S2-TP2112 Face B



S2-TP2112 Face C

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2122
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283741.63	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210289.66	Method	TP	
Project No	G23012	Level	223.34 mAOD	Termination Reason	Terminated due to water ingress and collapse	



S2-TP2112 Face D

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole			
							Date and Time		Depth	Water Depth	S2-TP2123		
							18/05/2023 14:20 18/05/2023 15:30		0.00 3.00	Dry			
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	JCB 220X Ic				Sheet 1 of 1				
Client	Walters UK Ltd			Method	TP				Scale	1:20			
Project No	G23012	Level	229.00 mAOD	Orientation		180 degrees				Logged	AE		
Easting	284100.61	Northing	210501.34	Length		3.00				Checked	AP		
Termination Reason		8 tonne excavator's technical capability (depth)			Width		0.45						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description			Scale	Backfill		
1 ES 2 B	0.20 - 0.30 0.20 - 0.40 0.20	PID: 0.0ppmv		0.00			Brownish grey silty SAND and GRAVEL with occasional brick fragments (up to 100mm). Gravel is subangular fine to coarse of siltstone and limestone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR						
3 B	0.50 - 0.60	PID: 0.0ppmv		0.50	228.50		Medium strong light grey CONCRETE. (MADE GROUND) Geology Code: MGR 2nd Geology Code: Conc			0.50			
4 ES	0.60 - 0.70 0.60			0.60								228.40	
5 ES 6 B	0.90 - 1.00 0.90 1.00 - 1.20	PID: 0.0ppmv		(0.80)			Greyish brown slightly clayey slightly silty sandy angular to subrounded fine to coarse GRAVEL of siltstone and quartzite with low cobble content. Cobbles are subrounded of medium strong siltstone (130x90x60mm). Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			1.00			
7 D 8 ES	1.80 - 1.90 1.90 - 2.00 1.90	PID: 0.0ppmv		1.40	227.60		Firm greyish brown slightly gravelly slightly sandy silty CLAY. Gravel is angular to subrounded fine of siltstone and mudstone. Sand is fine occasionally coarse. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL			1.50			
9 D	2.30 - 2.40	PID: 0.0ppmv		(1.20)						2.00			
10 B	2.70 - 2.90			2.60	226.40		Orangish brown frequently stained greyish brown sandy silty angular fine to coarse GRAVEL of siltstone. Sand is fine to coarse. (Weathered SOUTH WALES COAL MEASURES FORMATION) Geology Code: SWCM 2nd Geology Code: GR			2.50			
				(0.40)						3.00			
				226.00			End of Exploratory Hole at 3.00m						
										3.50			
										4.00			
Weather	Sunny						Water Strikes						
Shoring	None						Date and Time		Strike	Rising to	Time	Remarks	
Stability	Stable						18/05/2023 15:30		3.00	2.97	20mins		
Remarks Machine excavated trial pit from GL to 3.00m													

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2123
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284100.61	Equipment	JCB 220X 1c	Sheet 1 of 4
Client	Walters UK Ltd	Northing	210501.34	Method	TP	
Project No	G23012	Level	229.00 mAOD	Termination Reason	8 tonne excavator's technical capability (depth).	



S2-TP2123 Spoil



S2-TP2123 Post Excavation

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP2123	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284100.61	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210501.34	Method	TP
Project No	G23012	Level	229.00 mAOD	Termination Reason	8 tonne excavator's technical capability (depth).

Sheet 2 of 4



S2-TP2123 Pre Excavation



S2-TP2123 Face C

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP2123

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284100.61	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210501.34	Method	TP	
Project No	G23012	Level	229.00 mAOD	Termination Reason	8 tonne excavator's technical capability (depth)	



S2-TP2123 Face D

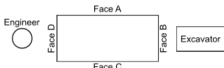


S2-TP2123 Face B

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2123
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284100.61	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210501.34	Method	TP	
Project No	G23012	Level	229.00 mAOD	Termination Reason	8 tonne excavator's technical capability (depth)	



S2-TP2123 Face A

				TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole	
Date and Time		Depth	Water Depth					S2-TP2124				
26/04/2023 12:10		0.00	3.75	Sheet 1 of 1								
26/04/2023 12:50		3.80		Scale 1:20								
Project Global Centre of Rail Excellence (GCRE) Stage 2		Equipment JCB 220X Ic		Logged CE								
Client Walters UK Ltd		Method		Checked AP								
Project No G23012		Level 229.25 mAOD		Orientation 40 degrees								
Easting 284049.39		Northing 210477.16		Length 4.00								
Termination Reason Unable to progress beyond 3.80m		Width 0.60										
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks	Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill				
1 ES	0.20 - 0.30	PID: 0.0ppmv	0.00 (0.10) 0.10	229.15		Dark grey slightly sandy clayey SILT with frequent rootlets (up to 3mm). Sand is fine to medium. (TOPSOIL) Geology Code: MGR 2nd Geology Code: SL	0.50					
2 D	0.30 - 0.40					Soft and firm dark grey mottled yellowish grey slightly sandy gravelly CLAY with low cobble content. Gravel is angular to subrounded fine to coarse of siltstone, sandstone and limestone. Cobbles are subrounded of medium strong limestone. Sand is fine. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL						
3 ES	0.50 - 0.60		(0.90)									
4 D	0.70 - 0.80	PID: 0.0ppmv										
5 ES	0.90 - 1.00	PID: 0.0ppmv	1.00	228.25		Dark grey slightly sandy clayey SILT with frequent rootlets (up to 3mm). Sand is fine to medium. (TOPSOIL) Geology Code: MGR 2nd Geology Code: SL	1.00					
6 B	1.20 - 1.40											
7 ES	1.40 - 1.50	PID: 0.0ppmv										
8 B	2.20 - 2.40		(1.90)									
9 B	3.20 - 3.40											
	3.80	Possible competent bedrock, unable to penetrate and retrieve material		225.45		Dark grey slightly sandy clayey SILT with frequent rootlets (up to 3mm). Sand is fine to medium. (TOPSOIL) Geology Code: MGR 2nd Geology Code: SL	3.00					
			(0.90)				3.50					
							4.00					
Weather		Trial Pit Excavation Onsite Layout				Water Strikes						
Shoring None						Date and Time						
Stability Stable		Log presents Face A unless otherwise noted.				Strike						
						Rising to						
						Time						
						Remarks						
						26/04/2023 12:25						
						3.30						
						3.75						
						20mins						
						Seepage at 3.30m. Filled base of pit from 3.80m to 3.75m after 20 minutes						
Remarks												
Machine excavated trial pit from GL to 3.80m.												
Printed 28/09/2023 07:54												

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2124
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284049.39	Equipment	JCB 220X 1c	Sheet 1 of 3
Client	Walters UK Ltd	Northing	210477.16	Method		
Project No	G23012	Level	229.25 mAOD	Termination Reason	Unable to progress beyond 3.80m	



S2-TP2124 Face D



S2-TP2124 Face B

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP2124	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284049.39	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210477.16	Method	
Project No	G23012	Level	229.25 mAOD	Termination Reason	Unable to progress beyond 3.80m

Sheet 2 of 3



S2-TP2124 Face A



S2-TP2124 Spoil