

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP230
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283203.22	Equipment	JCB 220X lc	Sheet 3 of 4
Client	Walters UK Ltd	Northing	211275.06	Method	TP	
Project No	G23012	Level	293.22 mAOD	Termination Reason	Scheduled depth	



S2-TP230 Face B



S2-TP230 Post Excavation

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP230
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283203.22	Equipment	JCB 220X lc	Sheet 4 of 4
Client	Walters UK Ltd	Northing	211275.06	Method	TP	
Project No	G23012	Level	293.22 mAOD	Termination Reason	Scheduled depth	



S2-TP230 Pre Excavation

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole				
							Date and Time		Depth	Water Depth	S2-TP235			
Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment		JCB 220X Ic		17/04/2023 10:00 17/04/2023 10:55		0.00 4.00	Dry	Sheet 1 of 1		
Client		Walters UK Ltd		Method		TP						Scale	1:20	
Project No		G23012		Level		293.01 mAOD		Orientation		350 degrees		Logged		CE
Easting		283109.18		Northing		211249.97		Length		4.50		Checked		AP
Termination Reason		Scheduled depth		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			0.00			Grey very sandy slightly clayey angular to subrounded fine to coarse GRAVEL of siltstone, mudstone and sandstone with high cobble content and low boulder content. Cobbles (200 x 160x100) and boulders (500x300x250) are angular and subangular of medium strong siltstone and sandstone. Sand is fine to coarse. Rare fabric fragments u(p to 20mm). (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR 2.00m - 3.00m Possible boulders (over 1.00m length).							
2 B	0.30 - 0.50												0.50	
3 ES	0.50 - 0.60												1.00	
4 ES	0.90 - 1.00												1.50	
5 B	1.30 - 1.50												2.00	
6 ES	1.90 - 2.00 2.00 - 4.00	Pit extended towards face D due to density of ground.		(4.00)									2.50	
7 B	2.30 - 2.50												3.00	
8 ES	2.90 - 3.00												3.50	
9 B	3.30 - 3.50												4.00	
10 ES	3.90 - 4.00				289.01							End of Exploratory Hole at 4.00m		
Weather		Dry		Trial Pit Excavation Onsite Layout Log presents Face A unless otherwise noted.					Water Strikes					
Shoring		None							Date and Time		Strike	Rising to	Time	Remarks
Stability		Collapse 1.00-2.00m in faces A and C												
Remarks Machine excavated trial pit from GL to 4.00m														
Printed 28/09/2023 08:05														

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283109.18	Equipment	JCB 220X 1c	Sheet 1 of 4
Client	Walters UK Ltd	Northing	211249.97	Method	TP	
Project No	G23012	Level	293.01 mAOD	Termination Reason	Scheduled depth	



S2-TP235 Face C



S2-TP235 Face B

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283109.18	Equipment	JCB 220X lc	Sheet 2 of 4
Client	Walters UK Ltd	Northing	211249.97	Method	TP	
Project No	G23012	Level	293.01 mAOD	Termination Reason	Scheduled depth	



S2-TP235 Spoil



S2-TP235 Face A

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283109.18	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211249.97	Method	TP
Project No	G23012	Level	293.01 mAOD	Termination Reason	Scheduled depth



S2-TP235 Pre Excavation



S2-TP235 Face D

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283109.18	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	211249.97	Method	TP	
Project No	G23012	Level	293.01 mAOD	Termination Reason	Scheduled depth	



S2-TP235 Post Excavation



S2-TP235 Spoil

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole					
							Date and Time		Depth	Water Depth	S2-TP237				
Project		Global Centre of Rail Excellence (GCRE) Stage 2			Equipment		JCB 220X Ic		09/05/2023 13:00 09/05/2023 13:40		0.00 3.20	Dry	Sheet 1 of 1		
Client		Walters UK Ltd			Method		TP						Scale	1:20	
Project No		G23012		Level		285.95 mAOD		Orientation		165 degrees		Logged		AE	
Easting		283289.84		Northing		211158.49		Length		4.00		Checked		AP	
Termination Reason		Terminated due to collapse			Width		0.60								
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Depth (Thickness)	Level (mAOD)	Legend	Description					Scale	Backfill	
1 B	0.10 - 0.30				0.00	285.55		Dark grey sandy subangular fine to coarse GRAVEL of siltstone with frequent concrete fragments (up to 50mm). Sand is fine to medium. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					0.50		
2 ES	0.20 - 0.30				(0.40)			Light brown slightly clayey silty SAND and GRAVEL with high cobble content, medium boulder content and occasional irregular pockets of light orangish brown silty clay (up to 300mm). Gravel is angular to subrounded fine to coarse of sandstone and siltstone. Cobbles are angular to subangular of medium strong to strong sandstone (180x110x80mm). Boulders are angular to subangular of medium strong to strong sandstone (450x350x230mm). Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR							
3 ES	0.50 - 0.60				0.40										
4 B	0.80 - 1.00				(2.80)		End of Exploratory Hole at 3.20m					1.00			
5 ES	0.90 - 1.00														
6 B	1.80 - 2.00				(2.80)							1.50			
7 ES	1.90 - 2.00														
8 B	2.80 - 3.00				(2.80)							2.00			
9 ES	2.90 - 3.00														
						282.75						2.50			
												3.00			
												3.50			
												4.00			
Weather		Clear							Water Strikes						
Shoring		None							Date and Time		Strike	Rising to	Time	Remarks	
Stability		Collapses Face A and C 0.50-3.20m.													
Remarks															
Machine excavated trial pit from GL to 3.20m.															

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP237
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283289.84	Equipment	JCB 220X 1c	Sheet 1 of 4
Client	Walters UK Ltd	Northing	211158.49	Method	TP	
Project No	G23012	Level	285.95 mAOD	Termination Reason	Terminated due to collapse	



S2-TP237 Post Excitation



S2-TP237 Face A

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP237	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283289.84	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211158.49	Method	TP
Project No	G23012	Level	285.95 mAOD	Termination Reason	Terminated due to collapse

Sheet 2 of 4



S2-TP237 Face C



S2-TP237 Face D

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole
S2-TP237

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283289.84	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211158.49	Method	TP
Project No	G23012	Level	285.95 mAOD	Termination Reason	Terminated due to collapse

Sheet 3 of 4



S2-TP237 Face B



S2-TP237 Spoil



EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole
S2-TP237

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283289.84	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211158.49	Method	TP
Project No	G23012	Level	285.95 mAOD	Termination Reason	Terminated due to collapse

Sheet 4 of 4



S2-TP237 Pre Excavation

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole
S2-TP238

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	281381.61	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211091.01	Method	TP
Project No	G23012	Level	250.63 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 4



Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	281381.61	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	211091.01	Method	TP	
Project No	G23012	Level	250.63 mAOD	Termination Reason	Scheduled depth	





EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP238

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	281381.61	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211091.01	Method	TP
Project No	G23012	Level	250.63 mAOD	Termination Reason	Scheduled depth

Sheet 3 of 4





EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP238

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	281381.61	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211091.01	Method	TP
Project No	G23012	Level	250.63 mAOD	Termination Reason	Scheduled depth

Sheet 4 of 4



				TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole	
Date and Time		Depth	Water Depth					S2-TP239				
04/05/2023 09:40 04/05/2023 10:45		0.00 4.00	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	265.63 mAOD	Orientation	180 degrees			Logged	AE			
Easting	283739.40	Northing	211089.29	Length	4.60			Checked	AP			
Termination Reason	Extended to 4.00m on instruction			Width	0.60							
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill			
1 ES 2 D	0.20 - 0.30 0.20 - 0.30 0.20	PID: 0.0ppmv		0.00			Firm to stiff grey slightly sandy very gravelly CLAY with medium cobble content and medium boulder content. Gravel is angular to subangular fine to coarse of siltstone and mudstone. Cobbles are angular to rounded moderately weak to medium strong of siltstone and mudstone (190×140×70mm). Boulders are angular to subrounded of medium strong siltstone and sandstone (800×500×400mm). Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL 0.00m - 0.10m Very soft brown slightly sandy clay with frequent rootlets (up to 1mm). Sand is fine.					
3 ES 4 D	0.50 - 0.60 0.50 - 0.60 0.50	PID: 0.0ppmv						0.50				
5 ES 6 D	0.90 - 1.00 0.90 1.00 - 1.10	PID: 0.0ppmv						1.00				
7 D	1.50 - 1.60			(2.60)				1.50				
8 ES 9 D	2.00 - 2.10 2.00 - 2.10 2.00	PID: 0.0ppmv						2.00				
10 D	2.40 - 2.50							2.50				
11 ES 12 D	3.00 - 3.10 3.00 - 3.10 3.00 3.00 3.00	HV: P: 28kPa R: 16kPa HV: P: 32kPa R: 17kPa HV: P: 41kPa R: 24kPa PID: 0.1ppmv		2.60 (0.70) 3.30	263.03 262.33		Soft grey mottled yellow slightly gravelly slightly sandy CLAY. Gravel is angular to rounded medium to coarse of sandstone and siltstone. Sand is fine. Occasional elongated pockets of reddish grey fine to medium sand. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL 2.60m - 2.70m Firm brown slightly sandy silt with frequent rootlets (up to 1mm) (Palaeo-soil).	3.00				
13 D	3.70 - 3.80			(0.70)			Stiff to very stiff grey mottled brown slightly sandy gravelly CLAY with medium cobble content. Gravel is angular fine to coarse of siltstone and sandstone. Cobbles are angular frequently tabular of medium strong sandstone (149×110×45mm). Sand is fine to medium. Occasional relict roots (up to 4mm). (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL	3.50				
				261.63			End of Exploratory Hole at 4.00m	4.00				
Weather	Sunny	Trial Pit Excavation Onsite Layout				Water Strikes						
Shoring	None					Date and Time	Strike	Rising to	Time	Remarks		
Stability	Collapses Face A and C GL to 2.50m.											
Remarks												
Machine excavated trial pit from GL to 4.00m.												

Printed 28/09/2023 08:10

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283739.40	Equipment	JCB 220X 1c	Sheet 1 of 5
Client	Walters UK Ltd	Northing	211089.29	Method	TP	
Project No	G23012	Level	265.63 mAOD	Termination Reason	Extended to 4.00m on instruction	



S2-TP239 Face C



S2-TP239 Face D

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole S2-TP239	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283739.40	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	211089.29	Method	TP
Project No	G23012	Level	265.63 mAOD	Termination Reason	Extended to 4.00m on instruction

Sheet 2 of 5



S2-TP239 Spoil



S2-TP239 Post Excavation