

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP288
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284666.04	Equipment	JCB 220X 1c	Sheet 1 of 4
Client	Walters UK Ltd	Northing	210483.74	Method	TP	
Project No	G23012	Level	236.28 mAOD	Termination Reason	Scheduled depth	



S2-TP288 Spoil



S2-TP288 Post Excavation

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP288

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284666.04	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210483.74	Method	TP
Project No	G23012	Level	236.28 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 4



S2-TP288 Face B



S2-TP288 Face D

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284666.04	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210483.74	Method	TP	
Project No	G23012	Level	236.28 mAOD	Termination Reason	Scheduled depth	



S2-TP288 Face C



S2-TP288 Face A

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP288
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284666.04	Equipment	JCB 220X lc	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210483.74	Method	TP	
Project No	G23012	Level	236.28 mAOD	Termination Reason	Scheduled depth	



S2-TP288 Pre Excavation

		TRIAL PIT EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time			Exploratory Hole										
								Date and Time		Depth	Water Depth	S2-TP289									
								10/05/2023 09:20 10/05/2023 11:30		0.00 0.50	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	236.44 mAOD	Orientation		340 degrees				Logged	AE										
Easting	284683.80	Northing	210484.03	Length		6.50				Checked	AP										
Termination Reason		Terminated due to concrete obstruction.			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	PID: 0.0ppmv Concrete obstruction in Face B section of trench.		0.00 (0.30)	236.14		Dark grey slightly gravelly fine to coarse SAND. Gravel is subangular to rounded fine to coarse of mudstone coal and rare siltstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: SD			0.50											
2 ES	0.20 - 0.30 0.20			Grey slightly sandy angular to subangular medium to coarse GRAVEL of siltstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR																	
3 B	0.30 - 0.50 0.30 - 0.50	Concrete obstruction.		0.30 (0.20)	235.94		End of Exploratory Hole at 0.50m			4.00											
	0.50																				
Weather Clear Shoring None Stability Stable Trial Pit Excavation Onsite Layout Log presents Face A unless otherwise noted. Water Strikes <table><tr><td>Date and Time</td><td>Strike</td><td>Rising to</td><td>Time</td><td>Remarks</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>												Date and Time	Strike	Rising to	Time	Remarks					
Date and Time	Strike	Rising to	Time	Remarks																	

Remarks

Machine excavated trial pit from GL to 0.5m.

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP289
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284683.80	Equipment	JCB 220X 1c	Sheet 1 of 4
Client	Walters UK Ltd	Northing	210484.03	Method	TP	
Project No	G23012	Level	236.44 mAOD	Termination Reason	Terminated due to concrete obstruction.	



S2-TP289 Post Excavation



S2-TP289 Face D

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole
S2-TP289

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284683.80	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	210484.03	Method	TP	
Project No	G23012	Level	236.44 mAOD	Termination Reason	Terminated due to concrete obstruction.	



S2-TP289 Face B



S2-TP289 Face A

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP289	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284683.80	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210484.03	Method	TP
Project No	G23012	Level	236.44 mAOD	Termination Reason	Terminated due to concrete obstruction.

Sheet 3 of 4



S2-TP289 Pre Excavation



S2-TP289 Spoil



EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP289

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284683.80	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210484.03	Method	TP	
Project No	G23012	Level	236.44 mAOD	Termination Reason	Terminated due to concrete obstruction.	



S2-TP289 Face C

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole					
							Date and Time		Depth	Water Depth	S2-TP289b				
Project		Global Centre of Rail Excellence (GCRE) Stage 2			Equipment		JCB 220X Ic		10/05/2023 12:15 10/05/2023 12:50		0.00 1.60	1.40	Sheet 1 of 1		
Client		Walters UK Ltd			Method		TP						Scale	1:20	
Project No		G23012		Level		236.50 mAOD		Orientation		70 degrees				Logged	AE
Easting		284684.54		Northing		210484.79		Length		5.50				Checked	AP
Termination Reason		Terminated due to water ingress			Width		1.40								
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	PID: 0.0ppmv			0.00	236.15		Dark grey slightly gravelly fine to coarse SAND with occasional metal scrap (up to 800mm). Gravel is subangular to rounded fine to coarse of siltstone, mudstone, coal and rare sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: SD <i>0.30m - 0.55m Strong light grey concrete slab in Face B.</i>							
2 ES	0.20 - 0.30 0.20				0.35										
3 ES	0.50 - 0.60 0.50	PID: 0.0ppmv			(1.25)	234.90		Grey slightly sandy angular to subangular medium to coarse GRAVEL of siltstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR <i>0.70m - 0.75m Light grey concrete slab in Face C.</i> <i>0.75m - 0.75m Polythene membrane under concrete slab in Face C.</i>					0.50		
4 B 5 ES	0.90 - 1.00 0.90 - 1.20 0.90	PID: 0.0ppmv													
								End of Exploratory Hole at 1.60m					1.50		
													2.00		
													2.50		
													3.00		
													3.50		
													4.00		
Weather		Clear, intermittent light rain.		Trial Pit Excavation Onsite Layout 				Water Strikes							
Shoring		None						Date and Time		Strike	Rising to	Time	Remarks		
Stability		Collapse Faces A B and C GL-1.6m.						10/05/2023 12:35		1.50	1.37	20mins			
Remarks Machine excavated trial pit from GL to 1.6m.															

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP289b
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284684.54	Equipment	JCB 220X LC	Sheet 1 of 4
Client	Walters UK Ltd	Northing	210484.79	Method	TP	
Project No	G23012	Level	236.50 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP289b Post Excitation



S2-TP289b Spoil

		EXPLORATORY HOLE PHOTOGRAPHS			Exploratory Hole	
					S2-TP289b	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284684.54	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	210484.79	Method	TP	
Project No	G23012	Level	236.50 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP289b Face A



S2-TP289b Pre Excavation

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole
S2-TP289b

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284684.54	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210484.79	Method	TP	
Project No	G23012	Level	236.50 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP289b Face D



S2-TP289b Face B

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP289b
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284684.54	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210484.79	Method	TP	
Project No	G23012	Level	236.50 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP289b Face C

		TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole								
						Date and Time		Depth	Water Depth	S2-TP292							
Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment		JCB 220X Ic		03/04/2023 09:30 03/04/2023 10:30		0.20 2.60		Sheet 1 of 1					
Client		Walters UK Ltd		Method		TP						Scale	1:20				
Project No		G23012		Level		237.27 mAOD		Orientation		30 degrees		Logged	AE				
Easting		284713.41		Northing		210474.06		Length		5.00		Checked	AP				
Termination Reason		Terminated due to water ingress		Width		0.60											
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description					Scale	Backfill				
1 B	0.00 - 0.20	Concrete		0.00 (0.20)	237.07		Strong light grey reinforced CONCRETE with 10mm rebar between 0.10-0.15m striking 30 degrees and 110 degrees. (MADE GROUND) Geology Code: MGR 2nd Geology Code: Conc					0.50					
2 ES	0.20 - 0.30			0.20			Grey sandy subangular to subrounded medium to coarse GRAVEL of siltstone and quartzite. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR										
3 B	0.40 - 0.60			(0.40)			Dark grey gravelly fine to medium SAND. Gravel is subrounded to rounded of siltstone, occasional coal and rare brick and sandstone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: SD										
4 ES	0.50 - 0.60			0.60			1.40m - 1.40m Polythene membrane.										
5 ES 6 B	0.90 - 1.00 0.90 - 1.10			(1.00)	235.67		Dark grey frequently stained organish brown sandy angular to subangular fine to coarse GRAVEL of mudstone siltstone and coal with high cobble content and low to medium boulder content. Cobbles are angular to subangular of medium strong siltstone (220x120x80mm). Boulders are angular to subangular of medium strong siltstone (350x330x140mm). Sand is fine to medium. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					1.00					
7 ES 8 B	1.90 - 2.00 1.90 - 2.10			(1.00)			End of Exploratory Hole at 2.60m					1.50					
												2.00					
												2.50					
												3.00					
												3.50					
												4.00					
Weather		Clear						Water Strikes									
Shoring		None						Date and Time		Strike		Rising to		Time		Remarks	
Stability		Collapse. Face A and C 1.40-2.60m						03/04/2023 10:20		2.40		2.40		20mins		Fast inflow	
Remarks																	
Machine excavated trial pit from GL to 2.60m																	

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP292

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284713.41	Equipment	JCB 220X 1c	Sheet 1 of 3
Client	Walters UK Ltd	Northing	210474.06	Method	TP	
Project No	G23012	Level	237.27 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP292 Face D



S2-TP292 Face B

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP292
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284713.41	Equipment	JCB 220X 1c	Sheet 2 of 3
Client	Walters UK Ltd	Northing	210474.06	Method	TP	
Project No	G23012	Level	237.27 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP292 Face C



S2-TP292 Spoil

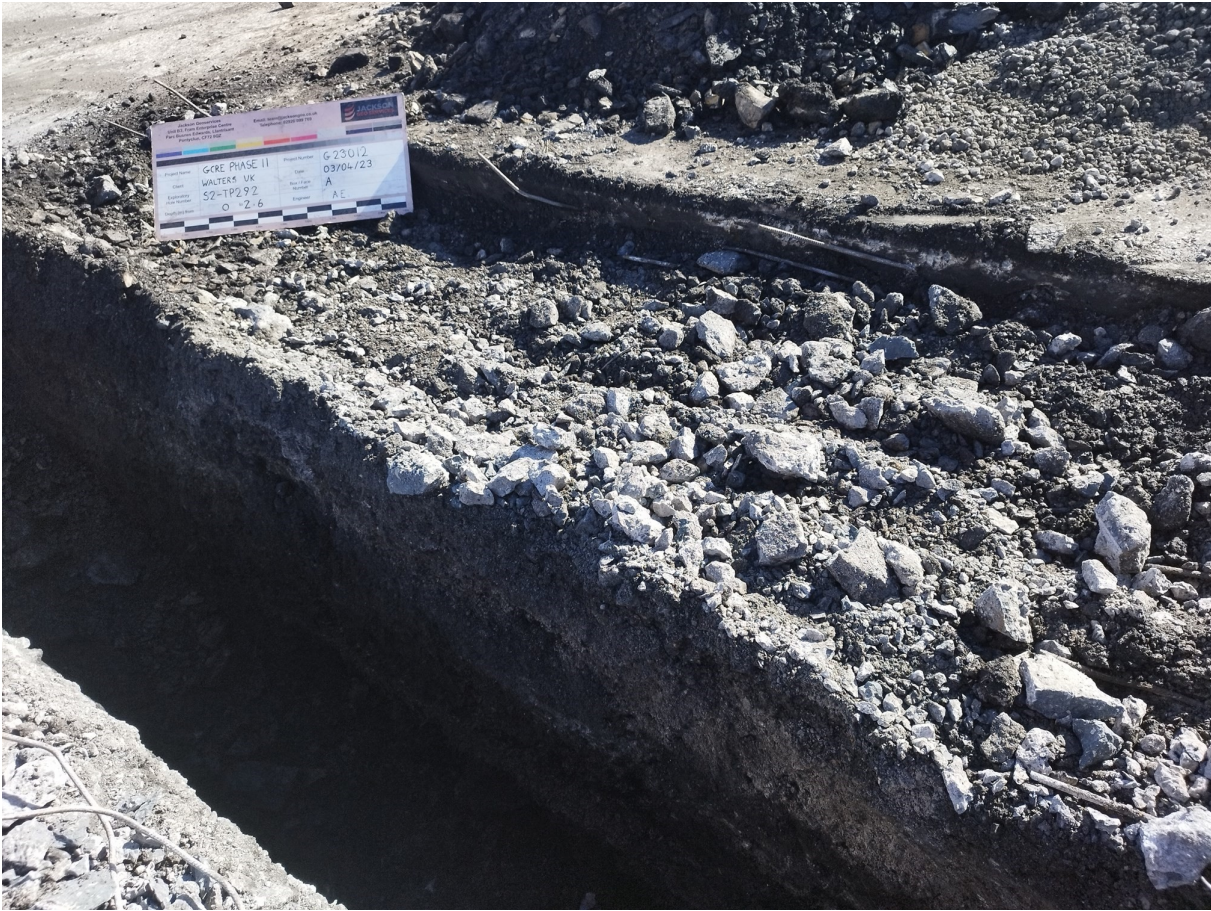


EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

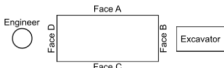
S2-TP292

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284713.41	Equipment	JCB 220X 1c	Sheet 3 of 3
Client	Walters UK Ltd	Northing	210474.06	Method	TP	
Project No	G23012	Level	237.27 mAOD	Termination Reason	Terminated due to water ingress	



S2-TP292 Face A

		TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole								
						Date and Time		Depth	Water Depth	S2-TP294							
Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment		JCB 220X Ic		04/04/2023 10:30 04/04/2023 12:10		0.00 4.00	Dry	Sheet 1 of 2					
Client		Walters UK Ltd		Method		TP						Scale	1:20				
Project No		G23012		Level		237.05 mAOD		Orientation		94 degrees		Logged		AE			
Easting		284645.82		Northing		210457.68		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 2 B	0.20 - 0.30 0.20 - 0.50			0.00 (0.60)			Dark grey gravelly fine rarely coarse SAND. Gravel is subangular to subrounded fine to coarse of siltstone mudstone and rare coal. Rare brick fragments (up to 70mm) and industrial metal scrap (up to 400mm). (MADE GROUND) Geology Code: MGR 2nd Geology Code: SD					0.50					
3 ES	0.50 - 0.60			0.60	236.45		Soft grey mottled brownish yellow slightly sandy CLAY with low cobble content. Cobbles are subrounded to rounded of medium strong sandstone (120×90×70mm). Sand is fine. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL					1.00					
4 ES 5 D	0.90 - 1.00 0.90 - 1.00 1.00 1.00 1.00	HV: P: 40kPa R: 28kPa HV: P: 44kPa R: 28kPa HV: P: 48kPa R: 27kPa		(0.70)													
6 D	1.40 - 1.50			1.30	235.75		Very soft to soft grey mottled greyish brown slightly gravelly sandy CLAY with low cobble content and low boulder content. Gravel is rounded fine to coarse of sandstone and occasional limestone and quartzite. Cobbles are rounded of medium strong sandstone (140×110×110mm). Boulders are rounded of medium strong sandstone (240×180×170mm). Sand is fine. (Possible GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL					1.50					
7 ES 8 D	1.90 - 2.00 1.90 - 2.00 2.00 2.00 2.00	HV: P: 10kPa R: 10kPa HV: P: 25kPa R: 18kPa HV: P: 31kPa R: 10kPa		(1.00)								2.00					
9 D	2.40 - 2.50			2.30	234.75		Firm to stiff greyish brown slightly sandy slightly gravelly silty CLAY with medium to high cobble content and low boulder content. Gravel is subrounded to rounded fine to coarse of sandstone quartzite and limestone. Cobbles are rounded of medium strong sandstone (190×120×100mm). Boulders are rounded of medium strong sandstone (300×180×100mm). Sand is fine. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL					2.50					
10 ES 11 D	2.90 - 3.00 2.90 - 3.00 3.00	No HSV test at 3m as silt sand gravel and cobble content is too high.		(1.70)								3.00					
12 D	3.40 - 3.50											3.50					
13 D	3.90 - 4.00											4.00					
Continued on next Sheet																	
Weather		Clear		Trial Pit Excavation Onsite Layout 				Water Strikes									
Shoring		None						Date and Time		Strike		Rising to		Time		Remarks	
Stability		Stable															
Log presents Face A unless otherwise noted.																	
Remarks Machine excavated trial pit from GL to 4.0m																	

		TRIAL PIT EXPLORATORY HOLE LOG						Exploratory Hole Progress by Time			Exploratory Hole		
								Date and Time		Depth	Water Depth	S2-TP294	
								04/04/2023 10:30 04/04/2023 12:10		0.00 4.00	Dry		
Project	Global Centre of Rail Excellence (GCRE) Stage 2			Equipment	JCB 220X Ic					Sheet 2 of 2			
Client	Walters UK Ltd			Method	TP					Scale	1:20		
Project No	G23012	Level	237.05 mAOD	Orientation		94 degrees				Logged	AE		
Easting	284645.82	Northing	210457.68	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		
		No HSV test due to high silt gravel and cobble content.					End of Exploratory Hole at 4.00m						
											4.50		
											5.00		
											5.50		
											6.00		
											6.50		
											7.00		
											7.50		
											8.00		
Weather	Clear	Trial Pit Excavation Onsite Layout 					Water Strikes						
Shoring	None						Date and Time		Strike	Rising to	Time	Remarks	
Stability	Stable												
Remarks													
Machine excavated trial pit from GL to 4.0m													