

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2113
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284596.01	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	210440.57	Method	TP	
Project No	G23012	Level	238.35 mAOD	Termination Reason	Scheduled depth	



S2-TP2113 Face B



S2-TP2113 Post Excavation

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2113
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284596.01	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210440.57	Method	TP	
Project No	G23012	Level	238.35 mAOD	Termination Reason	Scheduled depth	



S2-TP2113 Spoil



S2-TP2113 Face A



EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP2113

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284596.01	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210440.57	Method	TP
Project No	G23012	Level	238.35 mAOD	Termination Reason	Scheduled depth

Sheet 4 of 4



S2-TP2113 Pre Excavation

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole								
							Date and Time		Depth	Water Depth	S2-TP2114							
Project		Global Centre of Rail Excellence (GCRE) Stage 2		Equipment		JCB 220X Ic		11/05/2023 14:20 11/05/2023 15:00		0.00 4.00	Dry	Sheet 1 of 1						
Client		Walters UK Ltd		Method		TP						Scale	1:20					
Project No		G23012		Level		239.88 mAOD		Orientation		300 degrees		Logged		AE				
Easting		284804.12		Northing		210427.62		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 B	0.10 - 0.30			0.00			Dark grey sandy angular to subangular medium to coarse GRAVEL of siltstone. Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR											
2 ES	0.20 - 0.30			(0.30)														
				0.30	239.58													
3 ES	0.50 - 0.60						Dark grey SAND and GRAVEL with medium cobble content and rare brick fragments (up to 80mm). Gravel is angular to subrounded fine to coarse of mudstone siltstone and coal. Cobbles are subangular to subrounded of moderately weak to medium strong coal, mudstone and siltstone (180×140×100mm). Sand is fine to coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					0.50						
4 B	0.60 - 0.80																	
5 ES	0.90 - 1.00																	
6 B	1.60 - 1.80																	
7 ES	1.90 - 2.00			(3.10)														
8 B	2.60 - 2.80																	
9 ES	2.90 - 3.00																	
10 D	3.50 - 3.60			3.40	236.48		Firm grey mottled yellowish brown slightly sandy silty CLAY with rare irregular pockets of pinkish red fine sand (up to 60mm). (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL					3.50						
11 ES	3.70 3.70 3.70 3.80 - 3.90	HV: P: 70kPa R: 32kPa HV: P: 71kPa R: 26kPa HV: P: 71kPa R: 30kPa		(0.60)														
					235.88													
							End of Exploratory Hole at 4.00m							4.00				
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 1.50-3.40m																
Remarks Machine excavated trial pit from GL to 4.00m.																		

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP2114	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284804.12	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210427.62	Method	TP
Project No	G23012	Level	239.88 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 4



S2-TP2114 Pre Excavation



S2-TP2114 Spoil

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284804.12	Equipment	JCB 220X 1c	Sheet 2 of 4
Client	Walters UK Ltd	Northing	210427.62	Method	TP	
Project No	G23012	Level	239.88 mAOD	Termination Reason	Scheduled depth	



S2-TP2114 Post Excavation



S2-TP2114 Face B

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284804.12	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210427.62	Method	TP	
Project No	G23012	Level	239.88 mAOD	Termination Reason	Scheduled depth	



S2-TP2114 Face D



S2-TP2114 Face C

EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole
S2-TP2114

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	284804.12	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210427.62	Method	TP	
Project No	G23012	Level	239.88 mAOD	Termination Reason	Scheduled depth	



S2-TP2114 Face A

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole		
							Date and Time		Depth	Water Depth	S2-TP2115	
							12/04/2023 14:30 12/04/2023 15:10		0.00 4.00			
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	226.25 mAOD	Orientation		60 degrees		Logged	AE			
Easting	283941.90	Northing	210395.63	Length		4.00		Checked	AP			
Termination Reason		Scheduled depth		Width		0.70						
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	224.35		Dark grey silty SAND and GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of siltstone, sandstone and rare coal with low cobble content. Cobbles are subangular of medium strong siltstone. Occasional timber fragments (up to 40mm) (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR	0.50				
2 B	0.30 - 0.50											
3 ES	0.50 - 0.60											
4 ES	0.90 - 1.00											
5 B	1.30 - 1.50											
6 ES	1.90 - 2.00	HV: P: 18kPa R: 14kPa HV: P: 26kPa R: 12kPa HV: P: 46kPa R: 21kPa		1.90	223.45		Soft grey and brownish grey slightly gravelly silty CLAY with occasional fragments of decaying organic matter (up to 10mm). Gravel is angular fine to coarse of mudstone. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: CL	2.00				
7 D	2.00 - 2.10											
	2.50 2.50 2.50		(0.90)					2.50				
8 ES	2.90 - 3.00	HV: P: 21kPa R: 9kPa HV: P: 26kPa R: 13kPa HV: P: 31kPa R: 14kPa		2.80	222.55		Spongy brown fibrous PEAT with frequent fine to coarse gravel sized fragments of plant remains (up to 50mm). (PEAT) Geology Code: PEAT	3.00				
9 D	3.10 - 3.20											
	3.50 3.50 3.50							3.50				
10 B	3.70 - 3.90			3.70	222.25		Grey and light grey locally pinkish brown sandy clayey angular to subrounded fine to coarse GRAVEL of siltstone, sandstone and limestone with occasional irregular pockets of medium sand (up to 50mm) and high cobble content. Cobbles are angular to subrounded of moderately weak and medium strong sandstone and limestone. Sand is medium. (GLACIAL TILL) Geology Code: GT 2nd Geology Code: GR	4.00				
11 ES	3.90 - 4.00											
End of Exploratory Hole at 4.00m												
Weather	Rain and hail	Trial Pit Excavation Onsite Layout					Water Strikes					
Shoring	None						Date and Time	Strike	Rising to	Time	Remarks	
Stability	Collapse Face A and C 1.00-1.90m											
Remarks Machine excavated trial pit from GL to 4.00m												

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		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2115
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283941.90	Equipment	JCB 220X lc	Sheet 1 of 3
Client	Walters UK Ltd	Northing	210395.63	Method	TP	
Project No	G23012	Level	226.25 mAOD	Termination Reason	Scheduled depth	



S2-TP2115 Face C



S2-TP2115 Spoil

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2115
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283941.90	Equipment	JCB 220X 1c	Sheet 2 of 3
Client	Walters UK Ltd	Northing	210395.63	Method	TP	
Project No	G23012	Level	226.25 mAOD	Termination Reason	Scheduled depth	



S2-TP2115 Post excavation



S2-TP2115 Pre excavation

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	283941.90	Equipment	JCB 220X 1c	Sheet 3 of 3
Client	Walters UK Ltd	Northing	210395.63	Method	TP	
Project No	G23012	Level	226.25 mAOD	Termination Reason	Scheduled depth	



S2-TP2115 Face D



S2-TP2115 Face B

		EXPLORATORY HOLE PHOTOGRAPHS				Exploratory Hole
						S2-TP2116
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282343.66	Equipment	JCB 220X 1c	Sheet 1 of 4
Client	Walters UK Ltd	Northing	210407.20	Method	TP	
Project No	G23012	Level	243.21 mAOD	Termination Reason	Scheduled depth	



S2-TP2116 Face B



S2-TP2116 Pre Excavation

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP2116	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282343.66	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210407.20	Method	TP
Project No	G23012	Level	243.21 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 4



S2-TP2116 Face C



S2-TP2116 Spoil

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282343.66	Equipment	JCB 220X 1c	Sheet 3 of 4
Client	Walters UK Ltd	Northing	210407.20	Method	TP	
Project No	G23012	Level	243.21 mAOD	Termination Reason	Scheduled depth	



S2-TP2116 Face D



S2-TP2116 Post Excavation



EXPLORATORY HOLE PHOTOGRAPHS

Exploratory Hole

S2-TP2116

Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282343.66	Equipment	JCB 220X 1c	Sheet 4 of 4
Client	Walters UK Ltd	Northing	210407.20	Method	TP	
Project No	G23012	Level	243.21 mAOD	Termination Reason	Scheduled depth	



S2-TP2116 Face A

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole					
							Date and Time		Depth	Water Depth	S2-TP2117				
Project		Global Centre of Rail Excellence (GCRE) Stage 2			Equipment		JCB 220X Ic			19/05/2023 11:00 19/05/2023 13:25		0.00 3.50	Dry	Sheet 1 of 1	
Client		Walters UK Ltd			Method		TP			Scale				1:20	
Project No		G23012		Level		248.14 mAOD		Orientation		105 degrees		Logged		AE	
Easting		282042.34		Northing		210358.00		Length		2.00		Checked		AP	
Termination Reason		Scheduled depth			Width		0.65								
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks			Depth (Thickness)	Level (mAOD)	Legend	Description					Scale	Backfill	
1 D	0.10 - 0.20	HV: P: 31kPa R: 22kPa HV: P: 36kPa R: 25kPa HV: P: 57kPa R: 27kPa			0.00	247.84		Soft brown slightly gravelly slightly sandy clayey SILT with medium boulder content. Gravel is angular to subangular fine to coarse of siltstone and sandstone. Boulders are subrounded of strong siltstone and sandstone (350x280x190mm). Sand is fine to medium. Frequent rootlets (up to 1mm). (GLACIAL TILL) Geology Code: GT 2nd Geology Code: SL					0.50		
2 ES	0.20 - 0.30				(0.30)										
3 ES	0.50 - 0.60				0.30										
4 D	0.80 - 0.90														
5 ES	0.90 - 1.00														
	1.00				(1.50)										
	1.00														
	1.00														
6 D	1.30 - 1.40														

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP2117	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282042.34	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210358.00	Method	TP
Project No	G23012	Level	248.14 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 4



S2-TP2117 Spoil



S2-TP2117 Post Excavation

		EXPLORATORY HOLE PHOTOGRAPHS		Exploratory Hole	
				S2-TP2117	
Project	Global Centre of Rail Excellence (GCRE) Stage 2	Easting	282042.34	Equipment	JCB 220X 1c
Client	Walters UK Ltd	Northing	210358.00	Method	TP
Project No	G23012	Level	248.14 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 4



S2-TP2117 Face C



S2-TP2117 Face D