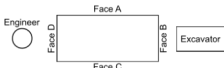


		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 4.00m		Exploratory Hole
						S1-TP104
Project	Global Centre of Rail Excellence	Easting	283088.57	Equipment	13 Tonne Tracked Excavator	Sheet 3 of 3
Client	Walters UK Limited	Northing	211928.77	Method	TP	
Project No	G22069	Level	227.97 mAOD	Termination Reason	Scheduled depth	



S1-TP104 - Spoil

				TRIAL PIT EXPLORATORY HOLE LOG				Exploratory Hole Progress by Time			Exploratory Hole		
Date and Time		Depth	Water Depth					S1-TP105					
28/11/2022 11:30		0.00	0.50										
28/11/2022 12:00		0.80											
Project		Global Centre of Rail Excellence		Equipment		20 Tonne Tracked Excavator				Sheet 1 of 1			
Client		Walters UK Limited		Method		TP				Scale		1:20	
Project No		G22069	Level	232.19 mAOD	Orientation		345 degrees		Logged		SC		
Easting		283229.20	Northing	211913.38	Length		6.00		Checked		AP		
Termination Reason		Water strike		Width		1.40							
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description			Scale	Backfill		
1 D 2 ES 3 B 4 ES 5 D 6 B 7 D	0.20 - 0.30 0.20 - 0.30 0.20 - 0.40 0.20 0.50 - 0.60 0.50 - 0.60 0.50 - 0.70 0.50 0.70 - 0.80	PID: 0.0ppmv		0.00	231.89		Firm greyish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mudstone with rare coal and sandstone. (TOPSOIL) Geology Code: MGR 2nd Geology Code: CL			0.50			
				(0.30)									
				0.30									
		PID: 0.0ppmv		(0.30)	231.59		Firm dark grey sandy gravelly CLAY. Sand is medium to coarse. Gravel is angular to subangular fine to coarse of mudstone and occasional coal. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR			1.00			
				0.60									
				(0.20)	231.39		Light brownish grey sandy angular fine to coarse GRAVEL of mudstone. Sand is coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR 0.60m - 0.70m Wooden sleeper (1.40m length, 0.20m diameter) End of Exploratory Hole at 0.80m			1.50			
												2.00	
				2.50									
						3.00							
				3.50									
						4.00							
Weather		Overcast		Trial Pit Excavation Onsite Layout 				Water Strikes					
Shoring		None						Date and Time		Strike	Rising to	Time	Remarks
Stability		Stable						28/11/2022 11:40		0.50	0.50	20mins	Fast inflow
Remarks													
Machine excavated trial pit from GL to 0.80m.													

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 0.80m.		Exploratory Hole
						S1-TP105
Project	Global Centre of Rail Excellence	Easting	283229.20	Equipment	20 Tonne Tracked Excavator	Sheet 1 of 3
Client	Walters UK Limited	Northing	211913.38	Method	TP	
Project No	G22069	Level	232.19 mAOD	Termination Reason	Water strike	



S1-TP105 - Face A



S1-TP105 - Face B

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 0.80m.		Exploratory Hole
						S1-TP105
Project	Global Centre of Rail Excellence	Easting	283229.20	Equipment	20 Tonne Tracked Excavator	Sheet 2 of 3
Client	Walters UK Limited	Northing	211913.38	Method	TP	
Project No	G22069	Level	232.19 mAOD	Termination Reason	Water strike	



S1-TP105 - Face C



S1-TP105 - Face D

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 0.80m.		Exploratory Hole
						S1-TP105
Project	Global Centre of Rail Excellence	Easting	283229.20	Equipment	20 Tonne Tracked Excavator	Sheet 3 of 3
Client	Walters UK Limited	Northing	211913.38	Method	TP	
Project No	G22069	Level	232.19 mAOD	Termination Reason	Water strike	



S1-TP105 - Spoil

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EXPLORATORY HOLE PHOTOGRAPHS

Remarks Machine excavate trial pit from GL to 4.00m	Exploratory Hole
	S1-TP106

Project	Global Centre of Rail Excellence	Easting	283353.37	Equipment	13 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211926.22	Method	TP
Project No	G22069	Level	233.81 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 3



S1-TP106 Face A



S1-TP106 Face B

EXPLORATORY HOLE PHOTOGRAPHS

Remarks
Machine excavate trial pit from GL to 4.00m

Exploratory Hole
S1-TP106

Project	Global Centre of Rail Excellence	Easting	283353.37	Equipment	13 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211926.22	Method	TP
Project No	G22069	Level	233.81 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 3



S1-TP106 Face C

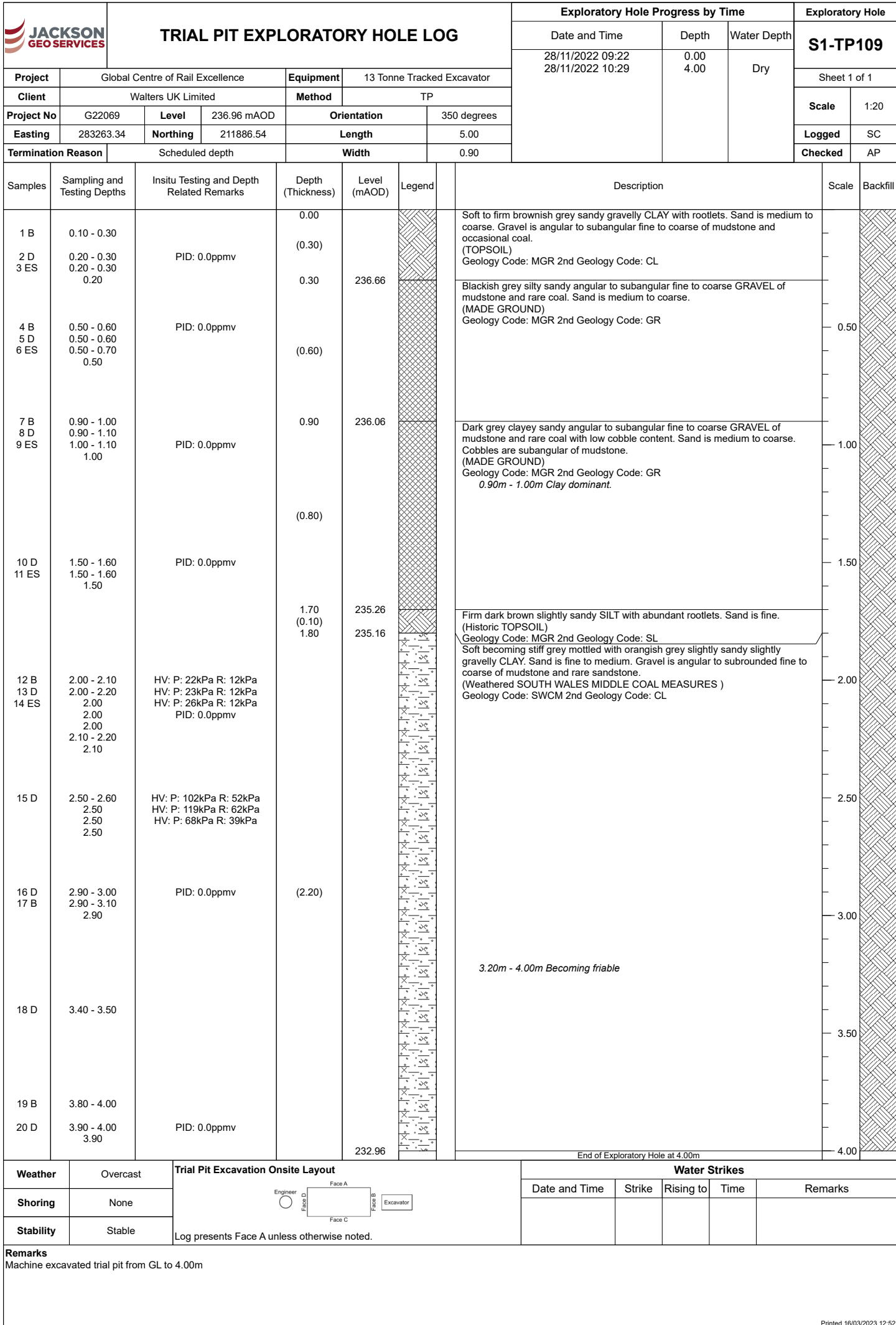


S1-TP106 Face D

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavate trial pit from GL to 4.00m		Exploratory Hole
						S1-TP106
Project	Global Centre of Rail Excellence	Easting	283353.37	Equipment	13 Tonne Tracked Excavator	Sheet 3 of 3
Client	Walters UK Limited	Northing	211926.22	Method	TP	
Project No	G22069	Level	233.81 mAOD	Termination Reason	Scheduled depth	



S1-TP106 Spoil



EXPLORATORY HOLE PHOTOGRAPHS

Remarks
Machine excavated trial pit from GL to 4.00m

Exploratory Hole
S1-TP109

Project	Global Centre of Rail Excellence	Easting	283263.34	Equipment	13 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211886.54	Method	TP
Project No	G22069	Level	236.96 mAOD	Termination Reason	Scheduled depth

Sheet 1 of 3



S1-TP109 - Face A



S1-TP109 - Face B

EXPLORATORY HOLE PHOTOGRAPHS

Remarks
Machine excavated trial pit from GL to 4.00m

Exploratory Hole
S1-TP109

Project	Global Centre of Rail Excellence	Easting	283263.34	Equipment	13 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211886.54	Method	TP
Project No	G22069	Level	236.96 mAOD	Termination Reason	Scheduled depth

Sheet 2 of 3



S1-TP109 - Face C



S1-TP109 - Face D

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 4.00m		Exploratory Hole
						S1-TP109
Project	Global Centre of Rail Excellence	Easting	283263.34	Equipment	13 Tonne Tracked Excavator	Sheet 3 of 3
Client	Walters UK Limited	Northing	211886.54	Method	TP	
Project No	G22069	Level	236.96 mAOD	Termination Reason	Scheduled depth	



S1-TP109 - Spoil

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole		
							Date and Time		Depth	Water Depth	S1-TP110	
							28/11/2022 12:15 28/11/2022 13:00		0.00 3.50	Dry		
Project	Global Centre of Rail Excellence			Equipment	20 Tonne Tracked Excavator				Sheet 1 of 1			
Client	Walters UK Limited			Method	TP				Scale	1:20		
Project No	G22069	Level	231.43 mAOD	Orientation		330 degrees			Logged	SC		
Easting	283174.60	Northing	211887.85	Length		6.20			Checked	AP		
Termination Reason		Unstable		Width		1.40						
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description		Scale	Backfill		
3 B 1 D 2 ES	0.00 - 0.15 0.10 - 0.15 0.10 - 0.15 0.10	PID: 0.0ppmv		0.00 (0.15) 0.15	231.28		Soft brown slightly sandy SILT with abundant rootlets. Sand is fine to medium. (TOPSOIL) Geology Code: MGR 2nd Geology Code: SL		0.50			
4 D 5 ES 6 B	0.40 - 0.50 0.40 - 0.50 0.40 - 0.60 0.40	PID: 0.0ppmv		(0.55)			Soft mottled orange and grey silty sandy CLAY with rare cobbles. Sand is fine to medium. Cobbles are subrounded of mudstone. Abundant rootlets. (Weathered SOUTH WALES MIDDLE COAL MEASURES) Geology Code: SWCM 2nd Geology Code: CL					
	0.70 0.70 0.70	HV: P: 15kPa R: 11kPa HV: P: 19kPa R: 10kPa HV: P: 26kPa R: 16kPa		0.70	230.73		Soft to firm orangish grey with occasional orange mottling silty sandy CLAY with rare gravel and rare cobbles. Sand is fine to medium. Gravel is subangular medium to coarse of mudstone and sandstone. Cobbles are subrounded of mudstone and sandstone. (Weathered SOUTH WALES MIDDLE COAL MEASURES) Geology Code: SWCM 2nd Geology Code: CL 1.00m - 1.50m Single mudstone boulder (500x600x550)		1.00			
7 D 8 ES 9 B	0.90 - 1.00 0.90 - 1.00 0.90 - 1.00 0.90 1.10 1.10 1.10	PID: 0.0ppmv		(0.40)	230.33		Firm to stiff bluish grey becoming dark grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of mudstone. (Weathered SOUTH WALES MIDDLE COAL MEASURES) Geology Code: SWCM 2nd Geology Code: CL		1.50			
10 D	1.50 - 1.60								2.00			
11 D 12 B	1.90 - 2.00 1.90 - 2.10 1.90	PID: 0.0ppmv		(1.80)					2.50			
13 D 14 B	2.40 - 2.50 2.40 - 2.60								3.00			
15 D 16 B	2.90 - 3.00 2.90 - 3.10 2.90	PID: 0.0ppmv		2.90	228.53		Dark grey clayey sandy angular fine to coarse GRAVEL of mudstone with medium cobble content. Sand is fine to coarse. Cobbles are angular of mudstone. (Weathered SOUTH WALES MIDDLE COAL MEASURES) Geology Code: SWCM 2nd Geology Code: GR		3.50			
				(0.60)					4.00			
17 D	3.40 - 3.50 3.40	PID: 0.0ppmv			227.93		End of Exploratory Hole at 3.50m					
Weather		Overcast	Trial Pit Excavation Onsite Layout				Water Strikes					
Shoring		None					Date and Time		Strike	Rising to	Time	Remarks
Stability		Unstable from 3.00m										
Remarks Machine excavated trial pit from GL to 3.50m.												

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		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 3.50m.		Exploratory Hole
						S1-TP110
Project	Global Centre of Rail Excellence	Easting	283174.60	Equipment	20 Tonne Tracked Excavator	Sheet 1 of 3
Client	Walters UK Limited	Northing	211887.85	Method	TP	
Project No	G22069	Level	231.43 mAOD	Termination Reason	Unstable	



S1-TP110 - Face A



S1-TP110 - Face B

EXPLORATORY HOLE PHOTOGRAPHS

Remarks
Machine excavated trial pit from GL to 3.50m.

Exploratory Hole
S1-TP110

Project	Global Centre of Rail Excellence	Easting	283174.60	Equipment	20 Tonne Tracked Excavator
Client	Walters UK Limited	Northing	211887.85	Method	TP
Project No	G22069	Level	231.43 mAOD	Termination Reason	Unstable

Sheet 2 of 3



S1-TP110 - Face C



S1-TP110 - Face D

		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 3.50m.		Exploratory Hole
						S1-TP110
Project	Global Centre of Rail Excellence	Easting	283174.60	Equipment	20 Tonne Tracked Ecavator	Sheet 3 of 3
Client	Walters UK Limited	Northing	211887.85	Method	TP	
Project No	G22069	Level	231.43 mAOD	Termination Reason	Unstable	



S1-TP110 - Spoil

		TRIAL PIT EXPLORATORY HOLE LOG					Exploratory Hole Progress by Time			Exploratory Hole		
							Date and Time		Depth	Water Depth	S1-TP111	
							15/11/2022 09:33 15/11/2022 10:57		0.00 3.50	3.48		
Project	Global Centre of Rail Excellence			Equipment	21 Tonne Tracked Excavator			Sheet 1 of 1				
Client	Walters UK Limited			Method	TP			Scale	1:20			
Project No	G22069	Level	231.25 mAOD	Orientation	125 degrees		Logged	SC				
Easting	284432.79	Northing	210649.48	Length	4.20		Checked	AP				
Termination Reason	Terminated on bedrock			Width	0.70							
Samples	Sampling and Testing Depths	Insitu Testing and Depth Related Remarks		Depth (Thickness)	Level (mAOD)	Legend	Description	Scale	Backfill			
3 B	0.10 - 0.30 0.10	PID: 0.0ppmv		0.00			Soft greyish black slightly silty slightly sandy gravelly CLAY. Sand is medium to coarse. Gravel is subangular medium to coarse of limestone. (MADE GROUND) Geology Code: MGR 2nd Geology Code: CL	0.50				
1 ES	0.20 - 0.25 0.20 - 0.30	PID: 0.1ppmv		(0.30)			Grey sandy angular fine GRAVEL of mudstone. Sand is coarse. (MADE GROUND) Geology Code: MGR 2nd Geology Code: GR					
2 D	0.20 - 0.30			0.30	230.95		Firm to stiff brownish grey mottled orangish grey sandy gravelly CLAY with low boulder content. Sand is medium to coarse. Gravel is angular to subangular fine to coarse of mudstone and occasional sandstone. Boulders are subangular of mudstone (400mm x 500mm x 70mm). (Weathered SOUTH WALES MIDDLE COAL MEASURES) Geology Code: SWCM 2nd Geology Code: CL	1.00				
4 D	0.20			(0.20)								
5 ES	0.30 - 0.35 0.40 - 0.50			0.50	230.75		1.50m - 2.00m Becoming very gravelly.	1.50				
7 B	0.70 - 1.00											
6 ES	0.90 - 1.00 0.90	PID: 0.0ppmv		(1.50)			Dark brown slightly clayey sandy angular to subangular fine to coarse GRAVEL of mudstone. Sand is coarse. (Weathered SOUTH WALES MIDDLE COAL MEASURES) Geology Code: SWCM 2nd Geology Code: GR	2.00				
8 D	1.00 - 1.05 1.00	PID: 0.1ppmv										
9 D	1.50 - 1.55 1.60	PID: 0.0ppmv		(1.50)				2.50				
10 B	2.00 - 2.30 2.00	PID: 0.0ppmv		2.00	229.25							
11 D	2.50 - 2.55			(1.50)				3.00				
12 D	3.00 - 3.05 3.00 - 3.30 3.00	PID: 0.0ppmv										
13 B								3.50				
14 D	3.50				227.75							
							End of Exploratory Hole at 3.50m					
								4.00				
Weather	Dry	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 3.50m												

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		EXPLORATORY HOLE PHOTOGRAPHS		Remarks Machine excavated trial pit from GL to 3.50m		Exploratory Hole
						S1-TP111
Project	Global Centre of Rail Excellence	Easting	284432.79	Equipment	21 Tonne Tracked Excavator	Sheet 1 of 3
Client	Walters UK Limited	Northing	210649.48	Method	TP	
Project No	G22069	Level	231.25 mAOD	Termination Reason	Terminated on bedrock	



S1-TP111 Face C



S1-TP111 Face B