






Exploratory Hole ID:  DBH4		Client: Pontardawe Coal and Metals Company					 www.opusinternational.co.uk				
Job No:  V-C8526.00		Site: Ewenny Road					Start Date: 05-09-2017		End Date: 05-09-2017		
Drilling Equipment/ Excavation Method: Hand Excavation Tools and Dando 150 Cable Percussion (CP) Rig				Co-ords:  Ground Level (mAOD): 113.300			Backfill Date: 05-09-2017		Field Records: GF		
							Logged: GF		Chkd: LE Appr: AW		
Strata Description				Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
Reinforced grey CONCRETE.				0.25	113.05						
MADE GROUND comprising grey sandy GRAVEL with a blue plastic membrane at the base. Gravel is medium to coarse angular to subangular limestone (Hardcore Fill).				0.50	112.80		B1	0.50 - 0.95			
MADE GROUND comprising brownish grey slightly sandy gravelly CLAY with occasional fragments of blue plastic membrane. Sand is fine to coarse. Gravel is fine to medium subangular to subrounded limestone and mudstone (Colliery Spoil).				0.95	112.35		B2	1.00 - 1.45	PID=0.9 ppm		
MADE GROUND comprising reddish brown mottled cream very sandy GRAVEL with a occasional cobbles and suspected boulders. Sand is medium to coarse. Gravel is fine to coarse angular mudstone (Colliery Spoil). Becomes light reddish brown from 0.95m.							B3	2.00 - 2.45	PID=1.8 ppm		
							B4	3.00 - 3.45	PID=2.2 ppm		
							B5	4.00 - 4.45	PID=1.3 ppm		
							B6	5.00 - 5.45	PID=0.0 ppm		
							B7	6.00 - 6.20	PID=0.3 ppm		
Becomes SAND from 6.0m.				6.20	107.10				PID=0.2 ppm		
Remarks: 1. Inspection pit excavated to 1.20m, cable percussion to refusal at 6.2m. 2. No Groundwater encountered. 3. No Installation. 4. Field log to BS EN 14688 based on engineers field observations and assessment. 5. Chiselling time of 120 minutes. 6. Elevation of hole position is estimated.								Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample ES - Environmental Sample		Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading	
								Sheet:		Sheet 1 of 1	

Exploratory Hole ID:	Client: Pontardawe Coal and Metals Company					<div><b>OPUS</b></div> <div>www.opusinternational.co.uk</div>				
DBH4A	Site: Ewenny Road					Start Date:		End Date:		
Job No:	V-C8526.00					11-09-2017		12-09-2017		
Drilling Equipment/ Excavation Method:			Co-ords:		Backfill Date:		Field Records:			
Hand Excavation Tools and Dando 150 Cable Percussion (CP) Rig					12-09-2017		GF			
			Ground Level (mAOD):		Logged:		Chkd:			
			113.300		GF		LE			
							Appr:			
							AW			
Strata Description			Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
Reinforced grey CONCRETE.			0.25	113.05						
MADE GROUND comprising grey sandy GRAVEL with a blue plastic membrane at the base. Gravel is medium to coarse angular to subangular limestone (Hardcore Fill).			0.60	112.70		B1	0.60 - 1.05	PID=0.5 ppm		
MADE GROUND comprising light redish brown slightly silty very gravelly SAND with suspected cobbles and boulders. Gravel is fine to coarse angular weathered mudstone and limestone (hardcore). Sand is medium to coarse weathered mudstone (Colliery Spoil).						B2	1.60 - 2.05	PID=0.2 ppm		
						B3	2.60 - 3.05	PID=0.2 ppm		
						B4	3.60 - 4.05	PID=0.3 ppm		
						B5	4.60 - 5.05	PID=0.3 ppm		
						B6	5.60 - 6.06	PID=0.5 ppm		
						B7	6.60 - 7.05	PID=0.3 ppm	6.50	
						B8	7.60 - 8.05	PID=0.3 ppm	7.40	
						B9	8.60 - 9.05	PID=0.3 ppm		
						B10	9.60 - 10.05	PID=0.3 ppm		
Remarks:						Sample Type Key		Test Type Key		
1. Inspection pit excavated to 1.20m, cable percussion to 16.8m.						D - Disturbed Representative		(C) - Cone SPT		
2. Groundwater encountered at 7.4m bgl.						B - Bulk Representative		(S) - Spoon SPT		
3. Dual Installation comprises of a deep install with slotted pipe from base of exploratory hole to 12.0m bgl and plain pipe to ground level, and a shallow install with slotted pipe from 11.0m to 1.0 m bgl and plain pipe to ground level. There is a 1.0m thick bentonite seal from 11.0m to 12.0m bgl. Concrete installed from 0.20m bgl to ground level with flush cover.						S - Spot Non-Representative		P - Pocket Penetrometer Reading		
4. Field log to BS EN 14688 based on engineers field observations and assessment.						W - Water		PID - PID Reading		
5. Chiselling time of 120 minutes.						U - Undisturbed Representative		V - Hand Shear Vane Reading		
6. Elevation of hole position is estimated.						J - Jar Sample				
						ES - Environmental Sample				
						Sheet:				
						Sheet 1 of 2				

Exploratory Hole ID:  DBH4A		Client: Pontardawe Coal and Metals Company					 www.opusinternational.co.uk					
Job No:  V-C8526.00		Site: Ewenny Road					Start Date: 11-09-2017		End Date: 12-09-2017			
Drilling Equipment/ Excavation Method: Hand Excavation Tools and Dando 150 Cable Percussion (CP) Rig					Co-ords:		Backfill Date: 12-09-2017		Field Records: GF			
					Ground Level (mAOD): 113.300		Logged: GF		Chkd: LE Appr: AW			
Strata Description					Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
Becomes dark grey sandy GRAVEL from 10.2m.								B11	10.20 - 10.65	PID=0.3 ppm  PID=0.4 ppm		
Becomes dark grey slightly gravelly SAND from 11.2m.												
Brownish grey mottled black slightly sandy SILT with occasional cobbles. Sand is fine. Cobbles are subrounded sandstone (Alluvium).					11.50	101.80	X X X X			PID=0.0 ppm PID=0.0 ppm		
Brownish grey gravelly SAND with occasional cobbles. Gravel is fine to coarse subrounded sandstone. Sand is medium to coarse. Cobbles are subrounded sandstone (Valley Gravels). Becomes more cobbley, with less sand from 12.8m.					11.80	101.50				PID=0.0 ppm  PID=0.0 ppm  PID=0.0 ppm  PID=0.0 ppm  PID=0.0 ppm  PID=0.0 ppm		
Becomes more sandy from 13.8m.												
Becomes more gravelly from 14.8m.												
					16.80	96.50						
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Exploratory Hole ID:  DBH5		Client: Pontardawe Coal and Metals Company				 www.opusinternational.co.uk			
Job No:  V-C8526.00		Site: Ewenny Road				Start Date:  06-09-2017		End Date:  06-09-2017	
Drilling Equipment/ Excavation Method: Hand Excavation Tools and Dando 150 Cable Percussion (CP) Rig		Co-ords:  Ground Level (mAOD): 113.900				Backfill Date:  06-09-2017		Field Records:  GF	
						Logged:  GF		Chkd:  LE	
								Appr:  AW	
Strata Description		Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
Reinforced grey CONCRETE.									
MADE GROUND comprising grey sandy GRAVEL. Gravel is medium to coarse angular limestone (Hardcore Fill).		0.30	113.60		B1	0.60 - 1.05			
MADE GROUND comprising dark grey silty gravelly SAND with coal ash. Gravel is fine to medium angular to subangular weathered mudstone with a trace of concrete. Sand is fine to coarse coal, mudstone and concrete (Colliery Spoil).  Becomes damp and slightly cohesive from 2.1m.		0.60	113.30		B2	1.10 - 1.55	PID=0.2 ppm		
					B3	2.10 - 2.55	PID=0.2 ppm		
					B4	2.70 - 3.15	PID=0.1 ppm		
MADE GROUND comprising reddish brown mottled cream gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse angular variably weathered mudstone and siltstone (Colliery Spoil).		2.70	111.20		B5	3.70 - 4.15	PID=0.2 ppm		
					B6	4.70 - 5.15	PID=0.5 ppm		
					B7	5.10 - 5.55	PID=0.3 ppm PID=5.3 ppm	5.40	
					B8	6.10 - 6.55	PID=1.7 ppm	6.70	
					B9	7.10 - 7.55	PID=1.0 ppm		
					B10	8.10 - 8.35	PID=0.5 ppm		
					B11	8.40 - 8.85			
Greyish brown mottled brown slightly gravelly very silty SAND. Gravel is fine to medium subangular mudstone (Alluvium).		8.40	105.50		B12	9.20 - 9.65			
Brownish grey slightly silty sandy GRAVEL with occasional sandstone cobbles. Sand is medium to coarse. Gravel is fine to coarse subangular to rounded		9.20	104.70						
Remarks: 1. Inspection pit excavated to 1.20m, cable percussion to 16.2m. 2. Groundwater encountered at 6.7m bgl. 3. Dual Installation comprises of a deep install with slotted pipe from base of exploratory hole to 9.0m bgl and plain pipe to ground level, and a shallow install with slotted pipe from 8.0m to 1.0 m bgl and plain pipe to ground level. There is a 1.0m thick bentonite seal from 8.0m to 9.0m bgl. Concrete installed from 0.20m bgl to ground level with flush cover. 4. Field log to BS EN 14688 based on engineers field observations and assessment. 5. Chiselling time of 30 minutes. 6. Elevation of hole position is estimated.						Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample ES - Environmental Sample		Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading	
Sheet:						Sheet 1 of 2			

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DBH5		Site: Ewenny Road							
Job No:  V-C8526.00								Start Date:  06-09-2017	
								End Date:  06-09-2017	
Drilling Equipment/ Excavation Method: Hand Excavation Tools and Dando 150 Cable Percussion (CP) Rig				Co-ords:				Backfill Date:  06-09-2017	
				Ground Level (mAOD):  113.900				Field Records:  GF	
								Logged:  GF	
								Chkd:  LE	
								Appr:  AW	
Strata Description		Depth (m)	Level (m)	Legend	Sample Type	Sample Depth (m)	Tests	Groundwater Records	Backfill Details
sandstone and mudstone (Valley Gravels).			97.70		B13	10.20 - 10.65			
					B14	11.20 - 11.65			
					B15	12.20 - 12.65			
					B16	13.20 - 13.65			
					B17	14.20 - 14.65			
					B18	15.20 - 15.65			
					B19	15.90 - 16.20			
Lense of brownish grey sandy silt from 12.2m to 12.65m.									
Becomes slightly silty SAND/GRAVEL from 15.9m.									
Remarks: 1. Inspection pit excavated to 1.20m, cable percussion to 16.2m. 2. Groundwater encountered at 6.7m bgl. 3. Dual Installation comprises of a deep install with slotted pipe from base of exploratory hole to 9.0m bgl and plain pipe to ground level, and a shallow install with slotted pipe from 8.0m to 1.0 m bgl and plain pipe to ground level. There is a 1.0m thick bentonite seal from 8.0m to 9.0m bgl. Concrete installed from 0.20m bgl to ground level with flush cover. 4. Field log to BS EN 14688 based on engineers field observations and assessment. 5. Chiselling time of 30 minutes. 6. Elevation of hole position is estimated.									
Sample Type Key D - Disturbed Representative B - Bulk Representative S - Spot Non-Representative W - Water U - Undisturbed Representative J - Jar Sample ES - Environmental Sample							Test Type Key (C) - Cone SPT (S) - Spoon SPT P - Pocket Penetrometer Reading PID - PID Reading V - Hand Shear Vane Reading		
Sheet:							Sheet 2 of 2		