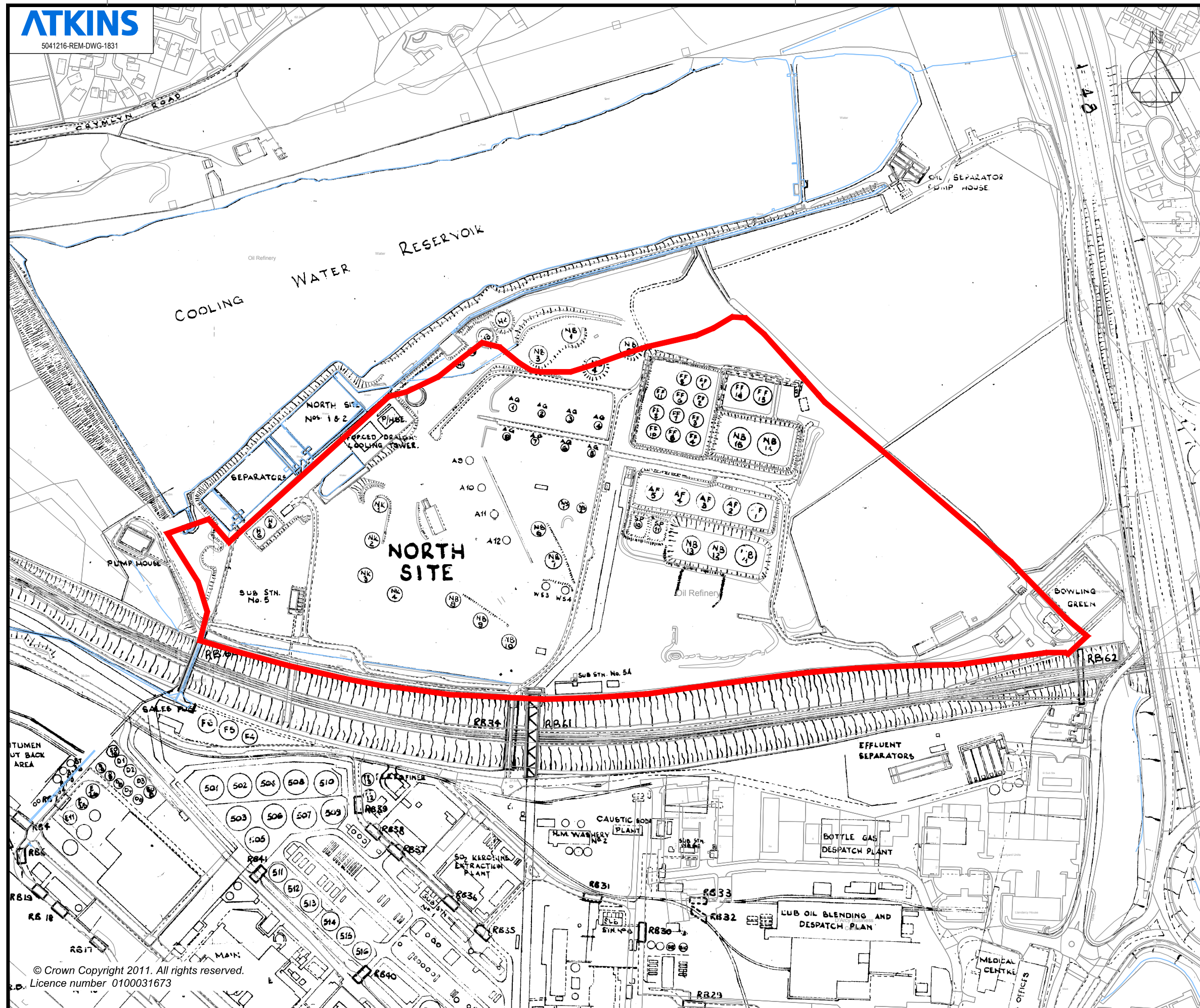


KEY



MONITOR BOUNDARY PHASE 54



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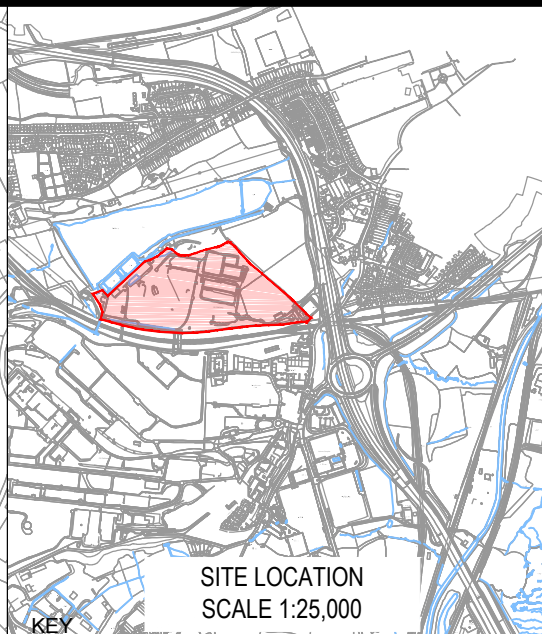
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MONITOR BOUNDARY PHASE 54
HISTORICAL LAYOUT

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	DATE	DATE	DATE
	26.03.15	26.03.15	

DRAWING NO	SHEET	PLOT DATE
	A3	13.04.15

5041216-REM-DWG-1831



SITE LOCATION
SCALE 1:25,000

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SHEET
A3

PLOT DATE
13.04.15

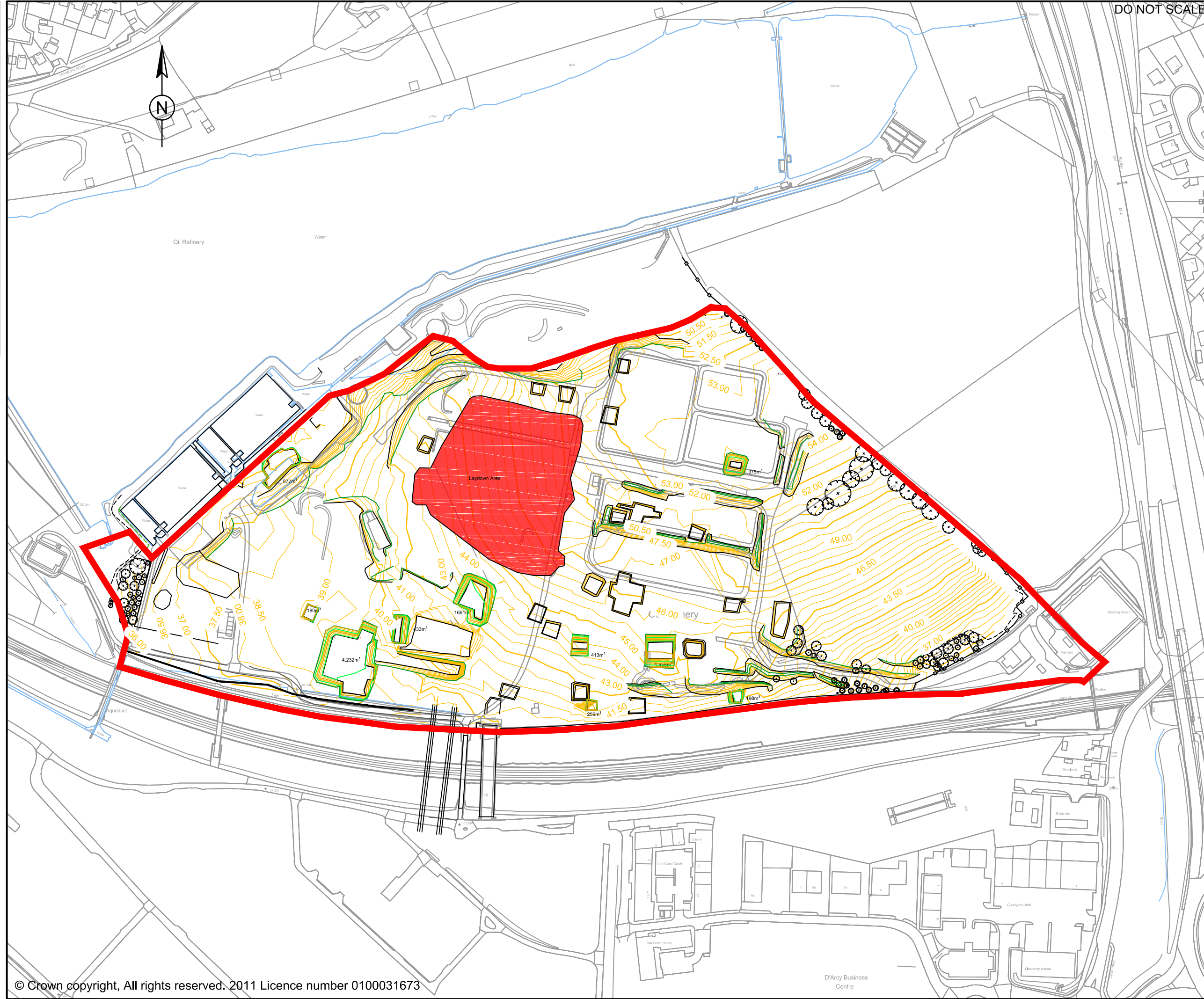
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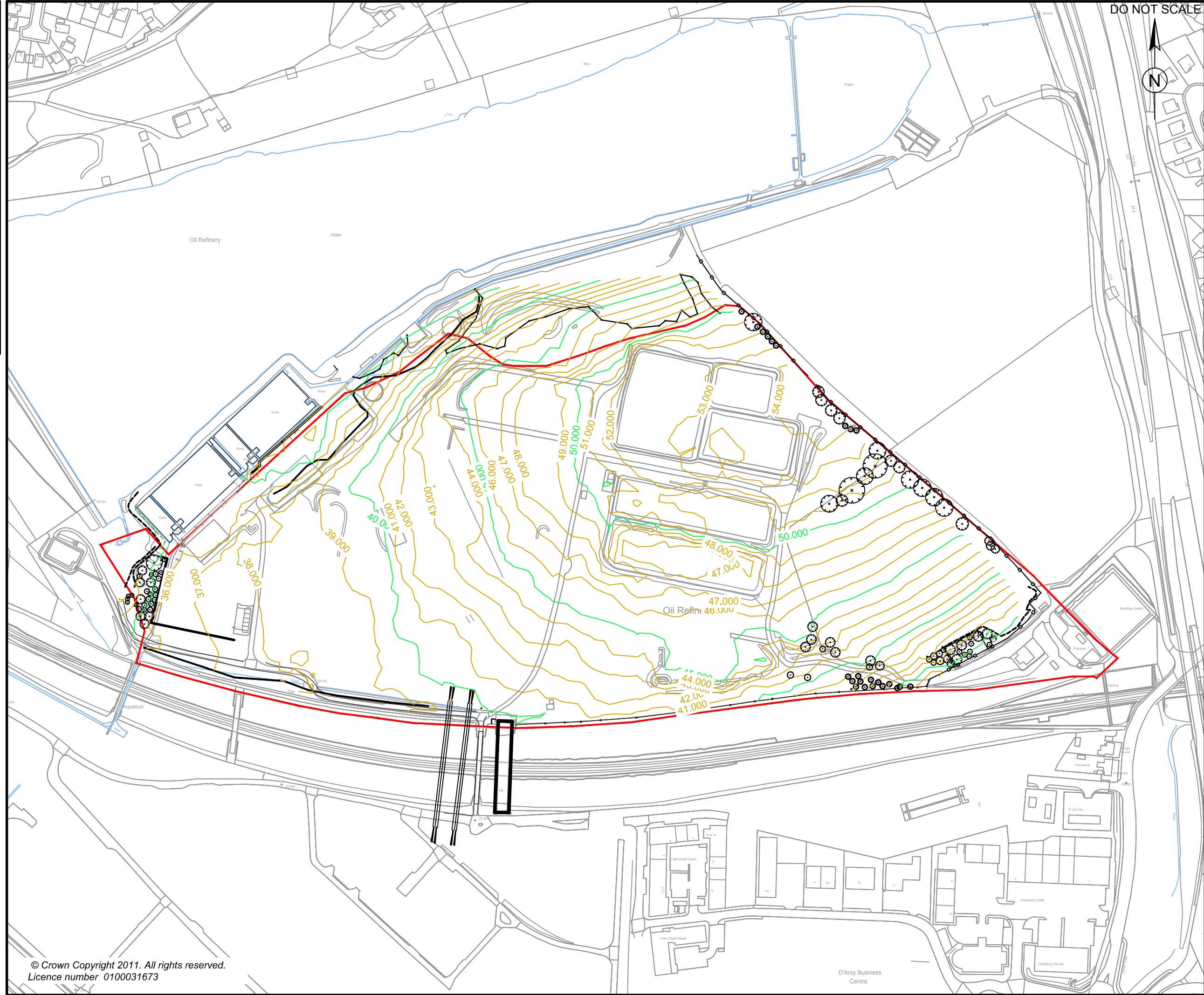
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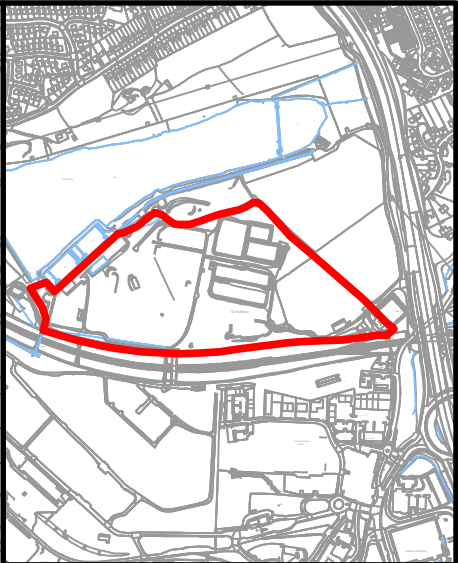


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Project Title					
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Drawing Title					
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1:2500	CS	HS	CS		
Original Site	Date	Date	Date	Date	
A3	21/10/15	21/10/15	21/10/15		
Drawing Number					Revision
5041216-ATK-DR-C-REM-2079					P 1



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LOCATION PLAN
SCALE 1:15,000

KEY

- MONITORING PHASE BOUNDARY
- MAJOR CONTOUR
- MINOR CONTOUR

Rev.	Date	Description	By	Chk'd	App'd

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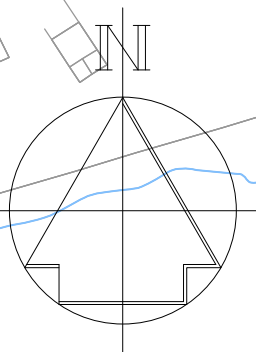
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Original Size	Date	Date	Date	Date
A3	06/10/15	06/10/15	06/10/15	06/10/15
Drawing Number	Revision			
5041216-ATK-DR-C-REM-2055	P 1			



Oil Refinery

Water

Oil Refinery

KEY

- MONITOR BOUNDARY PHASE 54
- TRIAL PIT LOCATION
- TRIAL PIT WITH RECORDED ASBESTOS FAILURE
- TRIAL PIT WITH RECORDED V/O CRITERIA EXCEEDANCE
- TRIAL PIT REQUIRING FURTHER INVESTIGATION OF A HYDROCARBON SHEEN/FREE PRODUCT/O SCORE
- LOCATION REQUIRING FURTHER INVESTIGATION OF RECORDED IN-SITU PIPEWORK
- TRIAL PIT WITH RECORDED RBSL FAILURES
- TRIAL PIT TO BE COMPLETED

A ADDITIONAL INVESTIGATION ADDED MJ CS 30.07.15

REVISIONS Drawn By Checked By Date

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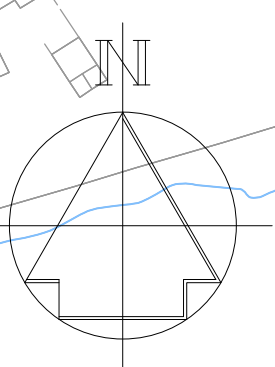
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NORTH SITE HOTSPOT LOCATION PLAN

SCALES 1:1250 DRAWN MB CHECKED CS CO-ORD CHECK

DATE 21/04/15 DATE 21/04/15 DATE

0 SHEET A1 PLOT DATE 05.08.15

DRAWING NO 5041216-REM-DWG-1841 REV A



Oil Refinery

Water

KEY



MONITOR BOUNDARY PHASE 54



TRIAL PIT

[illegible]

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MONITOR BOUNDARY PHASE 54
RECENT EXPLORATORY HOLE LOCATIONS

SCALES 1:1250	DRAWN MJ	CHECKED CS	CO-ORD CHECK
DATE 14/04/15	DATE 14/04/15	DATE	DATE
		SHEET A1	PLOT DATE 05.08.15
DRAWING NO 5041216-REM-DWG-1833			REV B

Appendix A. Summary of Adopted Thresholds

Lowest of the Remedial Target Criterion/Risk Based Screening Level for Commercial land use, Deep Soil (>1m)

Contaminant	Minimum RBSL/ RTC 1% (mg/kg)	Minimum of RBSL/ RTC 3% (mg/kg)
Benzo(a)pyrene	>sat	>sat
Benzene	5	5
Toluene	389	389
Ethylbenzene	>sat	>sat
Xylene	>sat	>sat
TPH aromatic C7-C8	617	617
TPH aromatic C8-C10	547	547
TPH aromatic C10-C12	>sat	>sat
TPH aromatic C12-C16	>sat	>sat
TPH aliphatic C6-C8	>sat	>sat
TPH aliphatic C8-C10	>sat	>sat
TPH aliphatic C10-C12	>sat	>sat
TPH aliphatic C12-C16	>sat	>sat
TPH aliphatic C16-C21	None	None
TPH aliphatic C21-C35	None	None
TPH aromatic C16-C21	None	None
TPH aromatic C21-C35	None	None
Total TPH (Phase 1)	81956	81956
Total TPH (Process Area)	35014	35014
Total TPH (North Tank Farm)	13974	13974
Total TPH (South Tank Farm)	34797	34797
1,2-Dichloroethane	0.65	0.65
1,1,1-Trichloroethane	3250	3250
Tetrachloroethene	368	368
Trichloroethene	28	28
Vinyl chloride	0.154	0.214
Dichloromethane	665	665
Cis-1,2-Dichloroethene	35.1	67
Trans-1,2 Dichloroethene	53.4	91
Acenaphthene	>sat	>sat
Anthracene	>sat	>sat
Benzo(a)anthracene	>sat	>sat
Benzo(b)fluoranthene	>sat	>sat
Benzo(g,h,i)perylene	>sat	>sat
Benzo(k)fluoranthene	>sat	>sat
Chrysene	>sat	>sat
Dibenz(a,h)anthracene	>sat	>sat
Fluoranthene	>sat	>sat
Fluorene	>sat	>sat
Indeno(1,2,3-cd)pyrene	>sat	>sat
Pyrene	>sat	>sat
Phenol	>sat	>sat
Mercury, methyl	>sat	>sat
Mercury, elemental	>sat	>sat
Naphthalene	>sat	>sat
1,1,1,2-Tetrachloroethane	278	768
1,1,2,2-Tetrachloroethane	718	1720
Carbon tetrachloride	7.34	19
Chlorobenzene (mono)	>sat	>sat
TPH aliphatic C5-C6	>sat	>sat
TPH aromatic C5-C7	71	152

Notes

- Where the lower of the vapour or aqueous saturation limits have been exceeded by the RTC calculated, the hazard quotient is considered to be less than 1 and as such >sat has been presented
- Xylene - the lowest RTC of the three isomers has been presented. Users must consider total exposure from all xylene isomers and not consider them in isolation
- TPH >C16 are not considered to be volatile according to TPHCWG. Consequently the inhalation of vapour pathways have not been considered and therefore no RTC value has been presented here
- "None" indicates theoretical RBSL greater than solubility limit
- In the S106 only one value was presented for 1,2-dichloroethene of 91 mg/kg
- 'Total' TPH RBSL derived for an area of development, based on individual RBSL and available mass fraction TPH data in soil at time of derivation, using the inverse weighted average approach
- Benzo(a)pyrene RBSL to be compared against sum of 16 US EPA Priority List PAHs using Toxicity Equivalence approach
- TPH aromatic C7-C8 is considered to comprise toluene only by Atkins
- No RTC was produced for total TPH as this will be considered further at validation stage
- Asbestos has not been considered here as it is being considered in a separate report
- Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-000476
- The potential presence of free product should be assessed in accordance with information in the S106
- TPH aromatic C5-C7 is considered to comprise benzene only by Atkins
- Values for phenol are calculated to be protective of dermal effects in line with the approach used by the Environment Agency to derive the commercial phenol SGV

Appendix B. Exploratory Hole Logs

Trial Pit Log



Logged SK Checked IC		Start 16/09/2014 End 16/09/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.60m Unable to progress past boulders in face B and C.	Dimensions and Orientation Width 1.70 m Length 4.70 m A B C D 180 (Deg)		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Brown clayey SAND and GRAVEL of sandstone. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse. (VO = 0,1) 0.60 m Occasionally stained grey with distinct hydrocarbon odour. (VO = 1,2)	(1.30)			
1.50	ES 2		2 Light greyish brown occasionally stained grey gravelly silty, fine to coarse SAND with low to medium cobble content and low boulder content. Gravel is angular to subrounded, fine to coarse of sandstone. Cobbles and boulders are angular to subrounded of sandstone. Strong hydrocarbon odour. (VO = 1,3)	1.30			
2.50	ES 3			(2.30)			
3.50	ES 4			3.60			
			EXPLORATORY HOLE ENDS AT 3.60 m				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Sunny, slight wind		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4801J07/2015 17:18:17 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSW879 Sheet 1 of 1		

Trial Pit Log



Logged NK Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.2m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.50 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)		(1.20)		
1.50	ES 2		2 Brown sandy locally very sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. (VO = 0,0)		1.20		
2.50	ES 3				(3.00)		
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.20 m		4.20		
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:08 AGS			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC100 Sheet 1 of 1		

Trial Pit Log



Logged NK Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D B →		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)	(0.70)			
1.50	ES 2		2 Brown gravelly fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular of sandstone. (VO = 0,0)	0.70			
2.50	ES 3			(3.30)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
			4.00 m Bedrock.				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:11			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC101 Sheet 1 of 1		

Trial Pit Log



Logged NK Checked AP		Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.2m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.50	ES 1		1 Light brown mottled dark brown sandy slightly gravelly SILT with low cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)	(1.30)				
1.50	ES 2		2 Brown silty gravelly fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, occasionally tabular fine to coarse of sandstone. Rare gravel sized pockets of grey medium sand. (VO = 0,0)	1.30 (0.90)				
			EXPLORATORY HOLE ENDS AT 2.20 m	2.20				
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:16			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC102 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m 	Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata	Depth, Level/ (Thickness) Legend Backfill/ Instruments		
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Dark brown gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of sandstone and siltstone. Cobbles are subrounded to well rounded of sandstone. Occasional rootlets. (VO = 0,0)	(0.75)		
1.50	ES 2		2 Dark greyish brown gravelly, fine to coarse SAND with low cobble content. Gravel is angular to subrounded of mixed lithologies including siltstone and sandstone. Cobbles are subangular to well rounded of sandstone and occasional siltstone. (VO = 0,0)	0.75		
2.50	ES 3			(3.25)		
3.50	ES 4					
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00		
			4.00 m Bedrock.			
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSC103 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.		Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown mottled orange gravelly slightly clayey, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are subangular to well rounded of sandstone. Moderate rootlets. (VO = 0,0)			(0.50)		
1.50	ES 2		2 Dark brown gravelly, fine to coarse SAND with low cobble content. Gravel is angular to subrounded, fine to coarse of mixed lithologies including siltstone and occasional sandstone. Cobbles are angular to well rounded of mixed lithologies including siltstone and occasional sandstone. Occasional rootlets. (VO = 0,0)			0.50		
2.50	ES 3					(3.50)		
3.50	ES 4							
			EXPLORATORY HOLE ENDS AT 4.00 m			4.00		
			4.00 m Bedrock.					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:22 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC104 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.0m Terminated on bedrock.		Dimensions and Orientation Width 1.60 m Length 3.50 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
		*	1 Dark brown mottled orange gravelly, fine to coarse SAND. Gravel is angular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Moderate rootlets. (VO = 0,0)			(0.75)		
			2 Dark brown gravelly, fine to coarse SAND with low cobble content. Gravel is angular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are angular to subrounded of sandstone and occasional siltstone. Occasional rootlets. (VO = 0,0)			0.75 (1.25)		
			EXPLORATORY HOLE ENDS AT 2.00 m			2.00		
			2.00 m Bedrock.					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m) 0.00 2.00 No Samples Obtained.			Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:25 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC105 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP		Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.		Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
		*	1 Light orangish brown gravelly, fine to coarse SAND with occasional cobbles. Gravel is subangular to well rounded, fine to coarse of sandstone and occasional siltstone. Cobbles are subangular to well roundd of sandstone and occasional siltstone. Occasional rootlets. (VO = 0,0)			(0.50)		
			2 Dark greyish brown gravelly, fine to coarse SAND with occasional cobbles. gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are subangular to well rounded of sandstone and siltstone. (VO = 0,0)			0.50		
						(3.50)		
			EXPLORATORY HOLE ENDS AT 4.00 m			4.00		1
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) 1 4.00 Small amount of water ingress.			Depth Related Remarks * From to (m) 0.00 No Samples Obtained.			Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:28			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC106 Sheet 1 of 1		

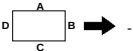
Trial Pit Log



Logged SP Checked AP		Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown mottled orange gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone. Cobbles are subangular to well rounded of mixed lithologies including sandstone and occasional siltstone. Moderate rootlets. (VO = 0,0)			(0.75)		
1.50	ES 2		2 Dark brown sandy angular to well rounded, fine to coarse GRAVEL of mixed lithologies including sandstone and siltstone with low cobble content. Sand is fine to coarse. Cobbles are subangular to well rounded of mixed lithologies including sandstone and siltstone. (VO = 0,0)			0.75 (1.25)		
			EXPLORATORY HOLE ENDS AT 2.00 m			2.00		
			2.00 m Bedrock					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:31 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC107 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP	Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.5m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 4.00 m 	Ground Level Coordinates National Grid Chainage	- - - -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Dark brown clayey slightly gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone. Cobbles are subangular to well rounded of sandstone. Occasional rootlets. (VO = 0,0)	(0.50)		
			2 Light orangish brown clayey gravelly, fine to coarse SAND. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone. (VO = 0,0)	(0.50)		
1.00	ES 2		3 Dark greyish brown clayey gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded of mixed lithologies including sandstone and siltstone. Cobbles are subangular to well rounded of mixed lithologies including sandstone and occasional siltstone. (VO = 0,0)	1.00		
2.50	ES 3			(3.50)		
3.50	ES 4					
			EXPLORATORY HOLE ENDS AT 4.50 m	4.50		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:35			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSC108 Sheet 1 of 1		



Trial Pit Log



Logged SP Checked AP		Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.5m Unable to progress through cobbles and boulders.	Dimensions and Orientation Width 3.00 m Length 1.50 m 	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light brown gravelly, fine to coarse SAND with low cobble content. Gravel is angular to well rounded, fine to coarse of mixed lithologies including sandstone. Cobbles are subangular to well rounded of sandstone. Moderate rootlets. (VO = 0,0)	(0.75)			
1.50	ES 2		2 Dark greyish brown gravelly slightly clayey, fine to coarse SAND with low cobble and boulder content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are subangular to well rounded of mixed lithologies including sandstone and siltstone. Boulders are subangular to subrounded of sandstone. Occasional rootlets. (VO = 0,0)	0.75			
2.50	ES 3			(3.75)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.50 m	4.50			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Sunny			
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSC109 Sheet 1 of 1			

Trial Pit Log



Logged SP Checked AP		Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.5m Unable to progress through cobbles.	Dimensions and Orientation Width 1.50 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Dark brown gravelly, fine to coarse SAND. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Moderate rootlets. (VO = 0,0)	(0.50)			
			2 Light brown gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of sandstone and occasional siltstone. Cobbles are subangular to well rounded of sandstone. (VO = 0,0)	(1.00)			
1.50	ES 2		3 Light brown sandy subangular to well rounded, fine to coarse GRAVEL of mixed lithologies including sandstone and siltstone with low cobble content. Sand is fine to coarse. Cobbles are subangular to well rounded of mixed lithologies including sandstone and siltstone. (VO = 0,0)	1.50			
2.50	ES 3			(3.00)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.50 m	4.50			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:45 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC109A Sheet 1 of 1		

Logged SP Checked AP	Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.5m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D B → -		Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light brown gravelly slightly clayey, fine to coarse SAND with low cobble content. Gravel is angular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are subangular to well rounded of mixed lithologies including sandstone and siltstone. Moderate rootlets. (VO = 0,0)	0.50			
1.50	ES 2		2 Dark greyish brown sandy subangular to well rounded, fine to coarse GRAVEL of mixed lithologies including sandstone and siltstone with low cobble content. Sand is fine to coarse. Cobbles are subangular to well rounded of mixed lithologies including sandstone and occasional siltstone. (VO = 0,0)	(2.00)			
			EXPLORATORY HOLE ENDS AT 2.50 m	2.50			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:49			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC111 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP		Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Dark brown gravelly, fine to coarse SAND. Gravel is angular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Moderate rootlets. (VO = 0,0)	0.50			
1.50	ES 2		2 Dark brown gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are subangular to well rounded of sandstone and occasional siltstone. (VO = 0,0)	(1.50)			
			EXPLORATORY HOLE ENDS AT 2.00 m	2.00			
			2.00 m Bedrock				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Sunny	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:53 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC113 Sheet 1 of 1	

Trial Pit Log



Logged SP Checked AP	Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 5.0m Terminated at maximum reach of excavator.	Dimensions and Orientation Width 1.50 m Length 3.00 m 	Ground Level Coordinates National Grid Chainage		
Samples and Tests		Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light orangish brown gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are subangular to well rounded of sandstone and occasional siltstone. Occasional rootlets. (VO = 0,0)	0.50		
1.50	ES 2		2 Dark brown sandy angular to well rounded, fine to coarse GRAVEL of mixed lithologies including sandstone and siltstone with low cobble content. Sand is fine to coarse. Cobbles are angular to well rounded of sandstone and occasional siltstone. (VO = 0,0)	(3.00)		
2.50	ES 3		3 Light brownish orange gravelly, fine to coarse SAND. Gravel is angular to well rounded, fine to coarse of sandstone and occasional siltstone. (VO = 0,0)	3.50		
3.50	ES 4			(1.50)		
4.50	ES 5					
Depth	Type & No.	Records Date	EXPLORATORY HOLE ENDS AT 5.00 m			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:41:59			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC114 Sheet 1 of 1	

Trial Pit Log



Logged SP Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Dark brown mottled orange gravelly clayey, fine to coarse SAND. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Moderate rootlets. (VO = 0,0)		0.50		
1.50	ES 2		2 Dark brown gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of sandstone and siltstone. Cobbles are angular to well rounded of sandstone and occasional siltstone. (VO = 0,0)		(1.50)		
			EXPLORATORY HOLE ENDS AT 2.00 m		2.00		
			2.00 m Bedrock				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:42:02 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC115 Sheet 1 of 1		

Trial Pit Log

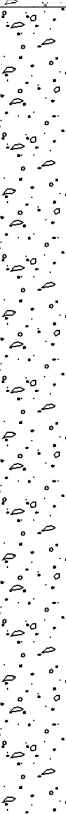


Logged NK Checked AP		Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.4m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.50 m 	Ground Level Coordinates National Grid Chainage	-	-	-
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.50	ES 1		1 Light brown mottled dark brown slightly sandy slightly gravelly SILT with low cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)	(1.00)				
1.50	ES 2		2 Bown gravelly localised silty fine to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	1.00				
2.50	ES 3			(3.40)				
			EXPLORATORY HOLE ENDS AT 4.40 m	4.40 m Bedrock	4.40			
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring none Weather Sunny			
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:42:05			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC116 Sheet 1 of 1			

Trial Pit Log



Logged NK Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.3m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.50 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT with low cobble content. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Cobbles are subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)	(0.90)			
1.50	ES 2		2 Brown gravelly, fine to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. (VO = 0,0)	0.90			
2.50	ES 3			(3.40)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.30 m	4.30			
			4.30 m Bedrock				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:42:08 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC117 Sheet 1 of 1		

Logged NK Checked AP		Start 17/11/2014 End 17/11/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.3m Terminated on bedrock.		Dimensions and Orientation Width 1.00 m Length 4.00 m A B C →		Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata							
Depth	Type & No.	Date Records	Description					Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT . Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Frequent rootlets. (VO = 0,0)					0.60		
1.50	ES 2		2 Brown silty gravelly, fine to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)							
2.50	ES 3									
			EXPLORARY HOLE ENDS AT 3.30 m					3.30		

[illegible]

Logged NK Checked AP	Start 14/11/2014 End 14/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.0m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m A D B C ➔		Ground Level Coordinates National Grid Chainage	- - -	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light brown slightly sandy gravelly SILT. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Frequent rootlets. (VO = 0,0)	0.50			
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	(2.50)			
2.50	ES 3						
			EXPLORATORY HOLE ENDS AT 3.00 m	3.00			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:42:19 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC120 Sheet 1 of 1		

[illegible]

Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:42:25 Carried out for St Modwen Developments Limited Sheet 1 of 1

[illegible]

Scale 1:25

Trial Pit Log



Logged NK Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.3m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 5.00 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT with low cobble content. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional rootlets. (VO = 0,0)			(0.90)		
1.50	ES 2		2 Yellowish brown gravelly fine to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)			0.90		
2.50	ES 3					(2.40)		
			EXPLORATORY HOLE ENDS AT 3.30 m			3.30		
			3.30 m Bedrock					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:42:33 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC126 Sheet 1 of 1		

Scale 1:25

Logged NK Checked AP		Start 17/11/2014 End 17/11/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.9m Terminated on bedrock.		Dimensions and Orientation Width 1.00 m Length 4.50 m A B C D E F G		Ground Level Coordinates National Grid Chainage	
Samples and Tests				Strata					
Depth	Type & No.	Date Records	Description				Depth, Level (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to coarse of sandstone. Frequent rootlets. (VO = 0,0)				0.80		
1.50	ES 2		2 Brown gravelly fien to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)				(2.10)		
2.50	ES 3								
			EXPLORATORY HOLE ENDS AT 2.90 m				2.90		

Trial Pit Log



Logged NK Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.1m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine to medium. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)	(1.10)			
1.50	ES 2		2 Brown slightly silty gravelly fine to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)	1.10			
2.50	ES 3			(3.00)			
			EXPLORATORY HOLE ENDS AT 4.10 m	4.10			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) 1 3.00 Seepage from all sides. Slight pooling at base, few cms.			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:42:44			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC129 Sheet 1 of 1		

Trial Pit Log



Logged NK Checked AP		Start 17/11/2014 End 17/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.50 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT . Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Occasional rootlets. (VO = 0,0)	(1.20)			
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded occasionally tabular of sandstone. Rare gravel sized pockets of orange and grey medium sand. (VO = 0,0)	1.20			
2.50	ES 3			(2.80)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
			4.00 m Bedrock.				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC130 Sheet 1 of 1		



Trial Pit Log



Logged NK Checked AP		Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.2m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.50 m 	Ground Level Coordinates National Grid Chainage
Samples and Tests			Strata	Depth, Level/ (Thickness)	
Depth	Type & No.	Date Records	Description	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown mottled dark brown slightly sandy slightly gravelly SILT. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Occasional rootlets. (VO = 0,0)	(1.10)	
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded occasionally tabular of sandstone. Occasional gravel sized orange and grey pockets of medium sands pockets. (VO = 0,0)	1.10	
2.50	ES 3			(3.10)	
3.50	ES 4				
			EXPLORATORY HOLE ENDS AT 4.20 m	4.20	
Depth	Type & No.	Records Date			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Sunny	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSC131 Sheet 1 of 1	

Trial Pit Log



Logged NK Checked AP		Start 18/11/2014 End 18/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown mottled dark brown slightly sandy slightly gravelly SILT. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Frequent rootlets. (VO = 0,0)		(0.60)		
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)		0.60		
2.50	ES 3				(3.40)		
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m		4.00		
			4.00 m Bedrock.				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:43:08			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC132 Sheet 1 of 1		

Scale 1:25

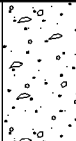
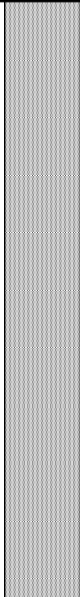
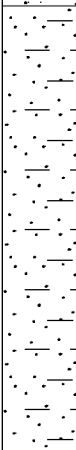
Trial Pit Log



Logged NK Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.3m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m 	Ground Level Coordinates National Grid Chainage	-
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown mottled dark brown sandy slightly gravelly SILT with low cobble content. Sand is fine. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)	(0.90)		
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. GRAVEL is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized orange and grey medium sand pockets. (VO = 0,0)	0.90		
2.50	ES 3			(2.50)		
3.50	ES 4		3 Light brown slightly silty gravelly fine to medium SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	3.40		
			EXPLORATORY HOLE ENDS AT 4.30 m	4.30		
			4.30 m Bedrock			
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSC134 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP		Start 28/11/2014 End 28/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.0m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 3.00 m A D B C ➔		Ground Level Coordinates National Grid Chainage
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light orangish brown clayey gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of sandstone. Cobbles are subangular to well rounded of sandstone. Moderate rootlets. (VO = 0,0)	0.50		
1.30	ES 2		2 Dark greyish brown gravelly clayey, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of sandstone and occasional siltstone. Cobbles are subangular to well rounded of sandstone. (VO = 0,0)			
			EXPLORATORY HOLE ENDS AT 2.00 m	2.00		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Sunny	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:43:34 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC135A Sheet 1 of 1	

Logged SP Checked AP	Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.0m Terminated on bedrock.	Dimensions and Orientation Width - Length - A B C D ➔	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Orangish brown clayey, fine to coarse SAND. Moderate rootlets. (VO = 0,0)	0.50		
1.50	ES 2		2 Greyish brown clayey gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded of sandstone and siltstone. Cobbles are angular to well rounded of sandstone. (VO = 0,0)	(1.50)		
			EXPLORATORY HOLE ENDS AT 2.00 m	2.00		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:43:37 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSC136 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.		Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D B →		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata						
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
		*	1 Orangish brown clayey slightly gravelly, fine to coarse SAND. Gravel is subangular to well rounded of sandstone. Moderate rootlets. (VO = 0,0)			(0.50)			
			2 Greyish brown clayey gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of sandstone and siltstone. Cobbles are angular to well rounded of sandstone. (VO = 0,0)			0.50			
						(3.50)			
			EXPLORATORY HOLE ENDS AT 4.00 m			4.00			
			4.00 m Bedrock.						
Depth	Type & No.	Records Date							
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m) 0.00 4.00 No Samples Obtained.			Stability Stable Shoring None Weather Rain			
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:43:41			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC137 Sheet 1 of 1			

Trial Pit Log



Logged SP Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated at maximum reach of excavator.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D B →		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Oranigsh brown clayey, fine to coarse SAND. Moderate rootlets. (VO = 0,0)	(0.50)			
1.50	ES 2		2 Greyish brown clayey gravelly, fine to coarse SAND with medium cobbles. Gravel is subangular to well rounded of mixed lithologies including sandstone and siltstone. Cobbles are angular to well rounded of sandstone and occasional siltstone. (VO = 0,0)	0.50			
2.50	ES 3			(3.50)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Rain	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:43:45			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC138 Sheet 1 of 1	

Trial Pit Log



Logged SP Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated at maximum reach of excavator.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Orangish brown clayey, fine to coarse SAND. Moderate rootlets. (VO = 0,0)	(0.50)			
1.50	ES 2		2 Dark greyish brown clayey gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are angular to well rounded of sandstone and occasional siltstone. (VO = 0,0)	0.50			
2.50	ES 3			(3.50)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain - cold		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:43:53			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC140 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.		Dimensions and Orientation Width 1.50 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Orangish brown mottled grey clayey, fine to coarse SAND. Moderate rootlets. Occasional cobble sized pockets of grey clay. (VO = 0,0)			(0.50)		
1.50	ES 2		2 Dark greyish brown clayey slightly gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are angular to well rounded of sandstone. (VO = 0,0)			0.50		
2.50	ES 3					(3.50)		
3.50	ES 4							
			EXPLORATORY HOLE ENDS AT 4.00 m			4.00		
			4.00 m Bedrock.					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Rain and cold		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:43:57			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC141 Sheet 1 of 1		

Logged SP Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D E F		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light orangish brown clayey, fine to coarse SAND. Moderate rootlets. (VO = 0,0)	(0.50)			
1.50	ES 2		2 Greyish brown gravelly clayey, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are subangular to well rounded of mixed lithologies including siltstone and sandstone. (VO = 0,0)	0.50 (2.50)			
2.50	ES 3						
			EXPLORATORY HOLE ENDS AT 3.00 m	3.00			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain and cold		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:43:59 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC142 Sheet 1 of 1		

Logged NK Checked AP	Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.4m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D B →	Ground Level Coordinates National Grid Chainage	- - -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown mottled dark brown slightly sandy slightly gravelly SILT with low cobble content. Sand is fine. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to medium of sandstone. Occasional gravel sized pockets of orange medium sand. Occasional rootlets. (VO = 0,0)	0.60		
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Frequent gravel sized pockets of orange and grey medium sand. (VO = 0,0)	(2.80)		
2.50	ES 3					
			EXPLORATORY HOLE ENDS AT 3.40 m	3.40		

Trial Pit Log



Logged NK Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level, (Thickness)		
Depth	Type & No.	Date Records	Description	Depth, Level, (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown mottled dark brown sandy slightly gravelly SILT with low cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)	(0.60)		
1.50	ES 2		2 Medium brown slightly silty gravelly fine to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Rare gravel sized pockets of orange and grey medium sand. (VO = 0,0)	0.60		
2.50	ES 3			(3.40)		
3.50	ES 4					
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00		
			4.00 m Bedrock.			
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSC144 Sheet 1 of 1		

Scale 1:25

Scale 1:25

Trial Pit Log



Logged NK Checked AP		Start 11/11/2014 End 11/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.4m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)	(0.50)			
			2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone and shale. Cobbles are subangular to subrounded of sandstone. Occasional gravel sized pockets of orange medium sand. (VO = 0,0)	0.50			
1.50	ES 2			(1.90)			
			EXPLORATORY HOLE ENDS AT 2.40 m	2.40			
			2.40 m Bedrock				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:44:24 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC147 Sheet 1 of 1		

Scale 1:25

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Trial Pit Log



Logged NK Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 machine excavated trial pit from GL to 1.6m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light brown mottled dark brown sandy slightly gravelly SILT with low cobble content. Sand is fine. Gravel is subangular to subrounded, fine to coarse of snadstone. Cobbles are subangular to subrounded, fine to medium of sandstone. Occasional rootlets. (VO = 0,0)	(0.70)			
			2 Medium brown slightly silty gravelly fine to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	0.70 (0.90)			
1.50	ES 2			1.60			
			EXPLORATORY HOLE ENDS AT 1.60 m	1.60 m Bedrock			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Heavy rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC150 Sheet 1 of 1		



Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:44:37 

Trial Pit Log

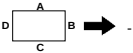
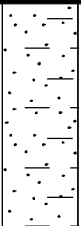
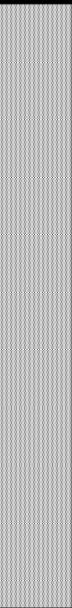
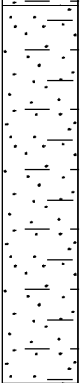


Logged NK Checked AP		Start 10/11/2014 End 10/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.2m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m 	Ground Level Coordinates National Grid Chainage	-	-	-	
Samples and Tests			Strata						
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments			
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)	(0.60)					
1.50	ES 2		2 Brown sandy slightly gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Occasional gravel sized pockets of orange medium sand. Rare rootlets. (VO = 0,0)	0.60					
2.50	ES 3		3 Greyish brown gravelly medium to coarse SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, occasionally tabular of sandstone. (VO = 0,0)	2.30					
			EXPLORATORY HOLE ENDS AT 3.20 m	3.20					
			3.20 m Bedrock						
Depth	Type & No.	Records Date							
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy				
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:44:40			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC152 Sheet 1 of 1				

Logged NK Checked AP	Start 10/11/2014 End 10/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.3m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown sandy slightly gravelly SILT. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Frequent rootlets. (VO = 0,0)	(0.70)		
1.50	ES 2		2 Brown sandy slightly gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Occasional gravel sized pockets of orange medium sand. Occasional rootlets. (VO = 0,0)	0.70 (1.70)		
2.50	ES 3		3 Greyish brown gravelly fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular of sandstone. (VO = 0,0)	2.40 (0.90)		
			EXPLORATORY HOLE ENDS AT 3.30 m	3.30		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC153 Sheet 1 of 1	

Trial Pit Log



Logged SP Checked AP	Start 27/11/2014 End 27/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m 	Ground Level Coordinates National Grid Chainage		
Samples and Tests		Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown gravelly clayey, fine to coarse SAND. Gravel is angular to well rounded of sandstone. Moderate rootlets. (VO = 0,0)	(0.75)		
1.50	ES 2		2 Dark brown gravelly slightly clayey, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone. Cobbles are subangular to well rounded of sandstone. Occasional rootlets. (VO = 0,0)	0.75 (1.25)		
			EXPLORATORY HOLE ENDS AT 2.00 m	2.00		
			2.00 m Bedrock			
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Cloudy
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC154 Sheet 1 of 1



Trial Pit Log



Logged AW Checked AP		Start 10/11/2014 End 10/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.70m Unable to progress beyond 3.70m.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots. (VO = 0,0)	0.20			
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content . Gravel is subangular to subrounded fine to coarse of sandstone. Cobbles are of angular to subangular sandstone (VO = 0,0)	(3.50)			
2.50	ES 3						
			EXPLORATORY HOLE ENDS AT 3.70 m	3.70			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Minor collapse Shoring None Weather Dryish		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:44:52 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC155 Sheet 1 of 1		

Scale 1:25

Trial Pit Log

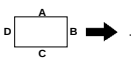


Logged NK Checked AP		Start 10/11/2014 End 10/11/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.4m Terminated on bedrock.		Dimensions and Orientation Width 1.00 m Length 4.00 m A D B C ➔		Ground Level Coordinates National Grid Chainage		- -
Samples and Tests			Strata							
Depth	Type & No.	Date Records	Description					Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown slightly gravelly SILT. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0					(1.10)		
1.50	ES 2		2 Brown sandy slightly gravelly SILT with low cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized pockets of orange medium sand. (VO = 0,0)					1.10 (0.80)		
2.50	ES 3		3 Greyish brown gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)					1.90 (1.50)		
			EXPLORATORY HOLE ENDS AT 3.40 m					3.40		
Depth	Type & No.	Records Date								
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)					Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:44:58 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited					Trial Pit NSC157 Sheet 1 of 1		

Trial Pit Log



Logged NK Checked AP		Start 10/11/2014 End 10/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.1m Terminated due to collapse.	Dimensions and Orientation Width 1.00 m Length 3.50 m A B C D		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown sandy gravelly SILT with low cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. Occasional gravel sized orange medium sand pockets. Rare rootlets. (VO = 0,0)			(1.10)		
			EXPLORATORY HOLE ENDS AT 1.10 m			1.10		
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Unstable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:01			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC158 Sheet 1 of 1		

Logged NK Checked AP		Start 21/11/2014 End 21/11/2014		Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 0.9m Terminated on bedrock.		Dimensions and Orientation Width 1.00 m Length 4.00 m 		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata						
Depth	Type & No.	Date Records	Description				Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown sandy slightly gravelly SILT with low cobble content. Sand is fine. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)				(0.90)		
			EXPLORATORY HOLE ENDS AT 0.90 m 0.90 m Bedrock.				0.90		
Depth	Type & No.	Records Date							
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)				Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:04 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited				Trial Pit NSC159 Sheet 1 of 1		

Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:07 

Logged NK Checked AP	Start 10/11/2014 End 10/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.0m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	Ground Level Coordinates National Grid Chainage		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown slightly sandy slightly gravelly SILT. Sand is fine. Gravel is subangular to subrounded, fine to medium of sandstone. Frequent rootlets. (VO = 0,0)	(0.90)		
1.50	ES 2		2 Dark brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular, fine to coarse of sandstone. (VO = 0,0)	0.90 (2.10)		
2.50	ES 3					
			EXPLORATORY HOLE ENDS AT 3.00 m	3.00		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Unstable Shoring None Weather Rain	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:09 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC161 Sheet 1 of 1	

Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:12 

Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:15 

Logged NK Checked AP	Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.9m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m		Ground Level Coordinates National Grid Chainage
Samples and Tests			Strata		
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend
0.50	ES 1		1 Light brown sandy gravelly SILT with low cobble content. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Occasional rootlets. (VO = 0,0)	(0.90)	
1.50	ES 2		2 Brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Frequent gravel sized pockets of orange and grey medium sand. (VO = 0,0)	0.90 (1.20)	
2.50	ES 3		3 Brown gravelly fine to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	2.10 (1.80)	
3.50	ES 4				
			EXPLORATORY HOLE ENDS AT 3.90 m	3.90	
Depth	Type & No.	Records Date			
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:22			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC164 Sheet 1 of 1

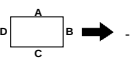
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Trial Pit Log



Logged SP Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated at maximum reach of excavator.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D B →		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light orangish brown very clayey, fine to coarse SAND, Moderate rootlets. (VO = 0,0)	(0.75)			
1.50	ES 2		2 Greyish brown clayey slightly gravelly, fine to coarse SAND with low cobble and boulder content. Gravel is angular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are angular to well rounded of mixed lithologies including siltstone and sandstone. Boulders are subangular to well rounded of sandstone. (VO = 0,0)	0.75			
2.50	ES 3			(3.25)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC166 Sheet 1 of 1		



Logged SP Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m 		Ground Level Coordinates National Grid Chainage		-	-	-
Samples and Tests			Strata							
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.50	ES 1		1 Light orangish brown very clayey, fine to coarse SAND. Moderate rootlets. (VO = 0,0)			0.50				
1.50	ES 2		2 Greyish brown clayey gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of siltstone and sandstone. Cobbles are angular to well rounded of sandstone. Occasional cobble sized pockets of grey mottled orange firm clay. (VO = 0,0)							
2.50	ES 3					(3.50)				
3.50	ES 4									
			EXPLORATORY HOLE ENDS AT 4.00 m			4.00				
Depth	Type & No.	Records Date								
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Rain.Cold.				
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:30 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC167 Sheet 1 of 1				

Trial Pit Log



Logged SP Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light orangish brown very clayey, fine to coarse SAND. Moderate rootlets. (VO = 0,0)	(0.50)			
1.50	ES 2		2 Greyish brown clayey gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are subangular to well rounded of mixed lithologies including sandstone and siltstone. (VO = 0,0)	0.50			
2.50	ES 3			(3.50)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
			4.00 m Bedrock				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Rain.Cold		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:36			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC168A Sheet 1 of 1		

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Trial Pit Log



Logged SP Checked AP		Start 24/11/2014 End 24/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Orangish brown very clayey, fine to coarse SAND. Moderate rootlets. (VO = 0,0)	(0.50)			
1.50	ES 2		2 Dark greyish brown clayey gravelly, fine to coarse SAND with low cobble content. Gravel is angular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are angular to well rounded of mixed lithologies including sandstone. (VO = 0,0)	0.50			
2.50	ES 3			(3.50)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
			4.00 m Bedrock.				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cold		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:43			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC171 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated at maximum reach of excavator.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D B →		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Orangish brown very clayey, fine to coarse SAND. Moderate rootlets. (VO = 0,0)	(0.50)			
1.50	ES 2		2 Greyish brown clayey slightly gravelly, fine to coarse SAND with low cobble and boulder content. Gravel is angular to well rounded of mixed lithologies including sandstone and siltstone. Cobbles are angular to well rounded of sandstone. Boulders are subangular to well rounded of sandstone. (VO = 0,0)	0.50			
2.50	ES 3			(3.50)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Rain.Cold	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:46			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC172 Sheet 1 of 1	

Trial Pit Log



Logged SP Checked AP		Start 21/11/2014 End 21/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.		Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Orangish brown clayey slightly gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to well rounded, fine to coarse of mixed lithologies including sandstone. Cobbles are subangular to well rounded of mixed lithologies including sandstone. Moderate rootlets. (VO = 0,0)			(0.50)		
1.50	ES 2		2 Dark greyish brown clayey gravelly, fine to coarse SAND with low cobble content. Gravel is angular to well rounded of mixed lithologies including siltstone and sandstone. Cobbles are angular to well rounded of mixed lithologies including siltstone and sandstone. (VO = 0,0)			0.50		
2.50	ES 3					(3.50)		
			EXPLORATORY HOLE ENDS AT 4.00 m			4.00		
			4.00 m Bedrock.					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:49 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC173 Sheet 1 of 1		

Trial Pit Log



Logged SP Checked AP		Start 20/11/2014 End 20/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m A B C D B →		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 Light orangish brown mottled grey clayey slightly gravelly, fine to coarse SAND. Gravel is subangular to well rounded of sandstone and occasional siltstone. Moderate rootlets. (VO = 0,0)	0.50			
1.50	ES 2		2 Greyish brown clayey gravelly, fine to coarse SAND with medium cobble content. Gravel is angular to well rounded, fine to coarse of mixed lithologies including sandstone and siltstone. Cobbles are angular to well rounded of sandstone and occasional siltstone. (VO = 0,0)	(3.50)			
2.50	ES 3						
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
			4.00 m Bedrock.				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:52 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC174 Sheet 1 of 1		

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Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:45:58 

Trial Pit Log



Logged AW Checked AP	Start 11/11/2014 End 11/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.9m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level Coordinates National Grid Chainage		
Samples and Tests		Strata				
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness) Legend Backfill/ Instruments		
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0)	(0.30)		
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Cobbles are of angular to subangular sandstone. Gravel is subangular to subround, fine to coarse of sandstone. (VO = 0,0)	0.30		
2.50	ES 3			(3.60)		
3.50	ES 4					
			EXPLORATORY HOLE ENDS AT 3.90 m	3.90		
			3.90 m Sandstone bedrock.			
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Dry,light rain	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC177 Sheet 1 of 1	



Trial Pit Log



Logged AW Checked AP		Start 10/11/2014 End 10/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.0m Terminated due to collapse.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D B →		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots and rootlets. (VO = 0,0)	(0.30)			
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with high cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular of sandstone. (VO = 0,0)	0.30			
2.50	ES 3			(3.70)			
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m	4.00			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Collapsed to 3.50m Shoring None Weather Light rain	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:46:08			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC179 Sheet 1 of 1	

Logged NK Checked AP	Start 24/11/2014 End 24/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.3m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D →		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Light brown mottled dark brown slightly sandy gravelly SILT with medium cobble content. Sand is fine. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. Frequent rootlets. (VO = 0,0)	0.80		
1.50	ES 2		2 Brown slightly silty gravelly fine to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded occasionally tabular of sandstone. (VO = 0,0)	(2.50)		
2.50	ES 3					
			EXPLORATORY HOLE ENDS AT 3.30 m	3.30		
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Trial Pit Log



Logged AW Checked AP		Start 10/11/2014 End 10/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.2m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots. (VO = 0,0)		0.20		
1.50	ES 2		2 Brown slightly silty gravelly, fine to coarse SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are angular to subangular sandstone. (VO = 0,0)		(3.00)		
2.50	ES 3						
			EXPLORATORY HOLE ENDS AT 3.20 m		3.20 Sandstone bedrock.		
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Dry		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4824/03/2015 08:46:16			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC182 Sheet 1 of 1		

Trial Pit Log

PRELIMINARY

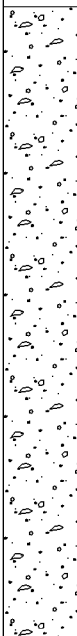
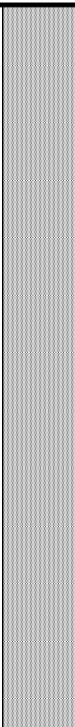


Logged <i>AW</i> Checked		Start 10/11/2014 End 10/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.20m	Dimensions and Orientation Width 1.30 m Length 6.00 m 	Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No.	Date Records	Description			
0.50	ES 1		1 (TOPSOIL) Brown silty SAND with frequent roots. (VO = 0,0) 2 Brown slightly silty gravelly SAND with frequent cobbles of subangular to subrounded sandstone. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	0.20		
1.50	ES 2			(3.00)		
			EXPLORATORY HOLE ENDS AT 3.20 m	3.20		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Shoring None Weather Dry		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSC183 Sheet 1 of 1		

Trial Pit Log

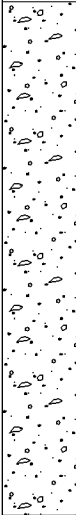


Logged AW Checked AP		Start 10/11/2014 End 10/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.80m Unable to progress beyond 3.80m.	Dimensions and Orientation Width 1.30 m Length 6.00 m A B C D B →		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots. (VO = 0,0) 2 Orange brown silty SAND with occasional roots and rootles. (VO = 0,0)	0.20 (0.30)				
1.50	ES 2		3 Brown slightly silty gravelly fine to coarse SAND with frequent cobbles of subangular to subrounded sandstone. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	0.50				
2.50	ES 3			(3.30)				
3.50	ES 4							
			EXPLORATORY HOLE ENDS AT 3.80 m	3.80				
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Dry		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:46:28			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit NSC184 Sheet 1 of 1		

Logged AW Checked AP	Start 07/11/2014 End 07/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.4m Terminated on bedrock.	Dimensions and Orientation Width 1.30 m Length 6.00 m A D B C ➔	Ground Level - Coordinates - National Grid - Chainage -		
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty fine to coarse SAND with frequent roots and ash pockets.	(0.30)		
			2 Brown slightly silty gravelly, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 0,0)	0.30		
1.50	ES 2			(2.10)		
			EXPLORATORY HOLE ENDS AT 2.40 m 2.40 m Sandstone bedrock.	2.40		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Wet		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:46:31 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit NSC185 Sheet 1 of 1		

Trial Pit Log



Logged AW Checked AP		Start 07/11/2014 End 07/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.0m Terminated on bedrock.		Dimensions and Orientation Width 1.30 m Length 6.00 m A D B C ➔		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (TOPSOIL) Brown silty, fine to coarse SAND with frequent roots. (VO = 0,0)			0.30		
			2 Brown slightly silty gravelly, fine to coarse SAND with low cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded of sandstone. (VO = 0,0)					
1.50	ES 2					(1.70)		
			EXPLORATORY HOLE ENDS AT 2.00 m			2.00		

Trial Pit Log



Logged NK Checked AP		Start 14/11/2014 End 14/11/2014	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.3m Terminated on bedrock.	Dimensions and Orientation Width 1.00 m Length 4.00 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 (MADE GROUND) Dark brown sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone and concrete. Cobbles are subangular to subrounded, fine to coarse of sandstone. Frequent rootlets. (VO = 0,0)	(1.10)			
1.50	ES 2		2 Yellowish brown gravelly fine to medium SAND with medium cobble content. Gravel is subangular to subrounded, fine to coarse of sandstone. Cobbles are subangular to subrounded tabular of sandstone. (VO = 0,0)	1.10 (1.20)			
			EXPLORATORY HOLE ENDS AT 2.30 m	2.30			
			2.30 m 'Bedrock'				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Sunny		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4824/03/2015 08:46:37			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit NSC187 Sheet 1 of 1		