TRIAL PIT RECORD

TP No. **TP17**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 18/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS Type	Depth From - To(m)	Vane Results kN/m²	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.			
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.22		
J B	0.60m 0.60m - 0.70m			Yellowish brown slightly clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone. ... Between 0.70m and 1.20m becoming clayey.	0.50		
D	1.10m						
				Yellowish brown gravelly SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	1.40		
				Very weak light yellowish brown mottled orange weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.90		
				End of Trial Pit at 2.00 m	2.00		

Remarks and Water Observations

1. Trial pit terminated at 2.00m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP17

TRIAL PIT RECORD

TP No. **TP18**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 18/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.25		
J	0.40m			Yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.35		
B	0.60m - 0.80m						
				Very weak light yellowish brown mottled orange weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.00		
				End of Trial Pit at 1.05 m	1.05		

Remarks and Water Observations

1. Trial pit terminated at 1.05m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP18

TRIAL PIT RECORD

TP No. **TP19**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 19/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
					0.25		
J	0.40m			Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.			
D	0.75m			... From 0.70m becoming very clayey.			
					0.80		
		44.0		Firm medium strength yellowish brown gravelly very sandy CLAY. Low content of angular cobbles of sandstone. Low plasticity (field description). Gravel is angular of sandstone.			
D	1.20m						
					1.40		
				Very weak light yellowish brown weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of anuglar sandstone. Gravel is angular of sandstone.	1.50		
				End of Trial Pit at 1.50 m			

Remarks and Water Observations

1. Trial pit terminated at 1.50m due to bedrock.
2. Groundwater not encountered.
3. Reported hand vanes are an average of a set of three.
4. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP19

TRIAL PIT RECORD

TP No. **TP20**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 18/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.				
J	0.20m							
J	0.30m			Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.25			
				Yellowish brown slightly clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.40			
				Very weak light yellowish brown mottled orange weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.10			
				End of Trial Pit at 1.20 m	1.20			

Remarks and Water Observations

1. Trial pit terminated at 1.20m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP20

TRIAL PIT RECORD

TP No. **TP21**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 16/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.30		
J	0.45m			Yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.40		
B	0.90m - 1.10m			... Between 1.20m and 1.50m rare pockets of clay.			
B	1.40m - 1.60m			... From 1.50m increased gravel content.			
				Very weak light yellowish brown mottled orange weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.95		
				End of Trial Pit at 2.00 m	2.00		

Remarks and Water Observations

1. Trial pit terminated at 2.00m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP21

TRIAL PIT RECORD

TP No. **TP22**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 16/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS Type	Depth From - To(m)	Vane Results kN/m²	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.20m			MADE GROUND: Grassed TOPSOIL comprising friable light brown sandy SILT with roots and rootlets.			
					0.40		
J	0.50m			Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.			
B	0.50m - 0.60m				0.60		
				Yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.			
B	1.30m - 1.50m			... From 1.30m becoming very gravelly with increased cobble content			
					1.90		
				Very weak orangish brown weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	2.00		
				End of Trial Pit at 2.00 m			

Remarks and Water Observations

1. Trial pit terminated at 2.00m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP22

TRIAL PIT RECORD

TP No. **TP23**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 16/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
J	0.10m			MADE GROUND: Grassed TOPSOIL comprising friable light brown sandy SILT with roots and rootlets.				
					0.20			
J	0.30m			Brownish yellow slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone with some iron staining. Low content of sub-angular cobbles of sandstone.				
B	0.40m - 0.50m							
					0.60			
				Stiff high strength orangish brown mottled grey slightly gravelly sandy CLAY. Low plasticity (field description). Gravel is angular to sub-angular of siltstone and sandstone with occasional iron staining.				
D	1.00m	130.0						
					1.70			
				Friable brown/grey gravelly sandy CLAY. Low plasticity (field description). Low content of angular cobbles of sandstone. Gravel is angular to sub-angular of siltstone and sandstone.				
D	2.00m							
					2.20			
				Brownish grey extremely weak thinly bedded weathered fine to coarse SANDSTONE interbedded with siltstone. Recovered as sandy clayey GRAVEL of angular sandstone and siltstone.	2.30			
				End of Trial Pit at 2.30 m				

Remarks and Water Observations

1. Trial pit terminated at 2.30m due to bedrock.
2. Groundwater not encountered.
3. Reported hand vanes are an average of a set of three.
4. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP23

TRIAL PIT RECORD

TP No. **TP24**
Sheet 1 of 2

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 16/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J B	0.10m 0.10m - 0.20m			MADE GROUND: Grassed TOPSOIL comprising friable light brown sandy SILT with roots and rootlets.			
					0.25		
J	0.30m			Brownish yellow slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone with some iron staining. Low content of sub-angular cobbles of sandstone.			
B	0.40m - 0.50m						
					0.70		
				Friable orangish brown mottled grey slightly gravelly sandy CLAY. Low plasticity (field description). Gravel is angular to sub-angular of siltstone and sandstone with occasional iron staining.			
D	1.30m						
					2.20		
				Friable brown/grey gravelly sandy CLAY. Low plasticity (field description). Gravel is angular to sub-angular of siltstone and sandstone.			
D	2.50m						
					2.90		
				Continued next sheet			

Remarks and Water Observations

1. Trial pit terminated at 3.20m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP24

TRIAL PIT RECORD

TP No. **TP24**
Sheet 2 of 2

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 16/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
B	3.00m - 3.20m			Extremely weak brownish grey weathered fine to coarse grained SANDSTONE interbedded with siltstone. Recovered as sandy clayey GRAVEL of angular sandstone and siltstone.				
				End of Trial Pit at 3.20 m	3.20			

Remarks and Water Observations

1. Trial pit terminated at 3.20m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP24

TRIAL PIT RECORD

TP No. **TP25**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 16/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.				
					0.40			
J	0.50m			Friable brownish yellow slightly gravelly very sandy CLAY. Low plasticity (field description). Gravel is angular to subangular of siltstone and sandstone.				
D	0.60m							
					0.80			
		101.0		Very stiff high strength orangish brown mottled grey slightly gravelly sandy CLAY. Intermediate plasticity. Gravel is angular to sub-angular of siltstone and sandstone with occasional iron staining.				
D	1.20m							
					2.00			
				Friable brown/grey gravelly sandy CLAY. Low plasticity (field description). Gravel is fine angular to sub-angular of siltstone and sandstone.				
D	2.20m							
					2.35			
				Extremely weak brownish grey weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular sandstone.	2.40			
				End of Trial Pit at 2.40 m				

Remarks and Water Observations

1. Trial pit terminated at 2.40m due to bedrock.
2. Groundwater not encountered.
3. Reported hand vanes are an average of a set of three.
4. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP25

TRIAL PIT RECORD

TP No. **TP26**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 16/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
J	0.30m			Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.25		
B	0.50m - 0.70m						
B	1.40m - 1.60m			Yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.90		
				... From 1.60m increased gravel content.			
				Very weak orangish brown weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	2.25 2.30		
				End of Trial Pit at 2.30 m			

Remarks and Water Observations

1. Trial pit terminated at 2.30m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP26

TRIAL PIT RECORD

TP No. **TP27**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 16/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS Type	Depth From - To(m)	Vane Results kN/m²	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
J	0.20m						
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.30		
				Yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.50		
J	0.60m						
B	0.60m - 0.80m						
				... From 1.20m increased gravel content.			
B	1.50m - 1.70m						
				Very weak brownish grey weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.75		
				End of Trial Pit at 1.80 m	1.80		

Remarks and Water Observations

1. Trial pit terminated at 1.80m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP27

TRIAL PIT RECORD

TP No. **TP28**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 19/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.			
J	0.20m						
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.25		
					0.35		
				Yellowish brown slightly clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.			
B	0.80m - 1.00m						
					1.40		
				Very weak light yellowish brown mottled orange weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.45		
				End of Trial Pit at 1.45 m			

Remarks and Water Observations

1. Trial pit terminated at 1.45m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP28

TRIAL PIT RECORD

TP No. **TP29**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 19/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.			
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.25		
J	0.40m			Yellowish brown slightly clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.35		
				Very weak light yellowish brown mottled orange weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.10		
				End of Trial Pit at 1.20 m	1.20		

Remarks and Water Observations

1. Trial pit terminated at 1.20m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP29

TRIAL PIT RECORD

TP No. **TP30**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 18/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.			
B	0.30m - 0.40m			Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone with rare coal fragments.	0.25		
J	0.40m			Yellowish brown slightly clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.50		
				Very weak light yellowish brown mottled orange weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.50		
				End of Trial Pit at 1.60 m	1.60		

Remarks and Water Observations

1. Trial pit terminated at 1.60m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP30

TRIAL PIT RECORD

TP No. **TP31**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 17/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
J	0.20m						
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.30		
				Yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.50		
J	0.60m						
B	1.55m - 1.60m			Very weak orangish brown weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.55		
					1.60		
				End of Trial Pit at 1.60 m			

Remarks and Water Observations

1. Trial pit terminated at 1.60m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP31

TRIAL PIT RECORD

TP No. **TP32**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 16/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
					0.30		
J	0.40m			Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.			
					0.70		
B	0.90m - 1.10m			Yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.			
				... From 1.10m becoming very gravelly with increased cobble content.			
					1.60		
				Very weak orangish brown weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.65		
				End of Trial Pit at 1.65 m			

Remarks and Water Observations

1. Trial pit terminated at 1.65m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP32

TRIAL PIT RECORD

TP No. **TP33**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 17/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.				
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.25			
J	0.70m			Yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles and boulders of sandstone. Gravel is angular of sandstone.	0.80			
				Very weak light yellowish brown mottled orange weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.00			
				End of Trial Pit at 1.05 m	1.05			

Remarks and Water Observations

1. Trial pit terminated at 1.05m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP33

TRIAL PIT RECORD

TP No. **TP34**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 17/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: Grassed TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
					0.20		
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.			
J	0.60m						
					0.70		
				Friable orangish brown slightly gravelly sandy CLAY. Low plasticity (field description). Gravel is angular to sub-angular of siltstone and sandstone.			
D	1.30m						
					1.40		
				Yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.			
					1.60		
				Very weak orangish brown weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.65		
				End of Trial Pit at 1.65 m			

Remarks and Water Observations

1. Trial pit terminated at 1.65m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP34

TRIAL PIT RECORD

TP No. **TP35**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 19/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
					0.25		
J	0.30m			Yellowish brown slightly clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.			
B	0.40m - 0.60m				0.40		
				Yellowish brown fine to coarse SAND and GRAVEL. High content of angular cobbles of sandstone. Gravel is angular of sandstone.			
					1.55		
				Very weak light yellowish brown mottled orange weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	1.60		
				End of Trial Pit at 1.60 m			

Remarks and Water Observations

1. Trial pit terminated at 1.60m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP35

TRIAL PIT RECORD

TP No. **TP36**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 19/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
					0.30		
J	0.40m			Yellowish brown slightly clayey slightly gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.			
					0.80		
				Very weak light yellowish brown mottled orange weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	0.90		
				End of Trial Pit at 0.90 m			

Remarks and Water Observations

1. Trial pit terminated at 0.90m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP36

TRIAL PIT RECORD

TP No. **TP37**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 22/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothless bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.			
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.30		
D	1.00m	53.0		Firm medium strength blueish grey mottled brown slightly gravelly sandy CLAY. Low plasticity (field description). Gravel is angular to sub-angular of siltstone and sandstone with occasional iron staining.	0.75		
				Extremely weak brown orange weathered fine to coarse grained SANDSTONE interbedded with siltstone. Recovered as sandy GRAVEL of angular sandstone and siltstone.	1.75		
				End of Trial Pit at 1.80 m	1.80		

Remarks and Water Observations

1. Trial pit terminated at 1.80m due to bedrock.
2. Groundwater not encountered.
3. Reported hand vanes are an average of a set of three.
4. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP37

TRIAL PIT RECORD

TP No. **TT1**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 22/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothed bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.				
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.25	43.64		
				Yellowish brown slightly clayey slightly gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.55	43.34		
				Yellowish brown fine to coarse SAND and GRAVEL. High content of angular cobbles of sandstone. Gravel is angular of sandstone.	1.40	42.49		
				Weak light yellowish brown weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of anuglar sandstone. Low content of angular boulders of sandstone (upto 500mm width). Gravel is angular of sandstone.	2.00	41.89		
				End of Trial Pit at 2.10 m	2.10	41.79		

Remarks and Water Observations

1. Trial trench terminated at 2.10m due to bedrock.
2. Groundwater not encountered.
3. Trial trench backfilled with arisings upon completion.

GL (m AOD) 43.89
Easting: 438472.61
Northing: 408090.66

Fig. No. TT1

TRIAL PIT RECORD

TP No. **TT2**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 22/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothed bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.				
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.40			
				Yellowish brown slightly clayey slightly gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.60			
				Yellowish brown fine to coarse SAND and GRAVEL. High content of angular cobbles of sandstone. Gravel is angular of sandstone.	1.60			
				Continued next sheet	2.90			

Remarks and Water Observations

1. Trial pit terminated at 3.00m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TT2

TRIAL PIT RECORD

TP No. **TT2**
Sheet 1+ of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 22/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothed bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
				Very weak light yellowish brown mottled orange weathered fine to coarse SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	3.00			
				End of Trial Pit at 3.00 m				

Remarks and Water Observations

1. Trial pit terminated at 3.00m due to bedrock.
2. Groundwater not encountered.
3. Trial pit backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TT2

TRIAL PIT RECORD

TP No. **TT3**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 19/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothed bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.				
				Yellowish brown slightly gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.25			
				Yellowish brown SAND and GRAVEL. High content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.60			
				Very weak light grey weathered fine to coarse SANDSTONE recovered as slightly clayey sandy COBBLES of angular sandstone with occasional gravel. Gravel is angular of sandstone.	1.00			
				... Between 1.70m and 1.75m band of thinly bedded brown fine grained SANDSTONE recovered as sandy GRAVEL of sandstone with orange/brown iron staining.	1.80			
				End of Trial Pit at 1.80 m				

Remarks and Water Observations

1. Trial trench terminated at 1.80m due to bedrock.
2. Groundwater not encountered.
3. Trial trench backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TT3

TRIAL PIT RECORD

TP No. **TT4**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 22/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothed bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.				
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.30			
				Yellowish brown slightly clayey slightly gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.50			
				Very weak light yellowish brown weathered fine to coarse SANDSTONE recovered as slightly gravelly COBBLES and BOULDERS of angular sandstone. Gravel is angular of sandstone.	2.00			
				Very weak micaceous orangish brown weathered fine to coarse grained SANDSTONE with occasional coal recovered as slightly sandy angular GRAVEL of sandstone.	2.60			
				End of Trial Pit at 2.80 m	2.80			

Remarks and Water Observations

1. Trial trench terminated at 2.80m due to bedrock.
2. Groundwater not encountered.
3. Trial trench backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TT4

TRIAL PIT RECORD

TP No. **TT5**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 22/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothed bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD			
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.			
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.30 0.40		
				Yellowish brown slightly clayey slightly gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.			
				Yellowish brown sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone.	0.90		
				Weak light yellowish brown weathered fine to coarse grained SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Low content of angular boulders of sandstone (upto 500mm width). Gravel is angular of sandstone.	1.20 1.30		
				End of Trial Pit at 1.30 m			

Remarks and Water Observations

1. Trial trench terminated at 1.30m due to bedrock.
2. Groundwater not encountered.
3. Trial trench backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TT5

TRIAL PIT RECORD

TP No. **TT6**
Sheet 1 of 1

Site : Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client : Barratt & David Wilson Homes

Dates: 22/09/2014

Method : JCB 3CX back hoe excavator with 600mm wide toothed bucket

Scale 1:15

Logged By: GB

Checked By: JL

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets.				
				Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.30 0.40			
				Yellowish brown slightly clayey slightly gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.				
				Yellowish brown sandy gravelly COBBLES of angular sandstone. Gravel is angular of sandstone. Between 1.10m and 1.50m bgl the top of the weathered bedrock is noted to be shallower in the west at 1.10m bgl than to the east at 1.50m bgl by c. 0.40m bgl.	1.00			
				Weak light yellowish brown weathered fine to coarse SANDSTONE recovered as slightly sandy gravelly COBBLES of angular sandstone. Low content of angular boulders of sandstone (upto 500mm width). Gravel is angular of sandstone.	1.50 1.55			
				End of Trial Pit at 1.55 m				

Remarks and Water Observations

1. Trial trench terminated at 1.55m due to bedrock.
2. Groundwater not encountered.
3. Trial trench backfilled with arisings upon completion.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TT6

WINDOW SAMPLING RECORD

BH No. **WS1**
Sheet 1 of 1

Site: Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client: Barratt & David Wilson Homes

Dates: 23/09/2014

Method: Tracked window sampler

Scale 1:25

Logged By: GB | Checked By: JL

Driller: RP Drilling

SAMPLE DETAILS Type	Depth From - To(m)	(N) Shear vane	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.				
				Yellowish brown gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.27	53.86		
J B	0.50m 0.50m - 1.00							
				Yellowish brown sandy GRAVEL. High content of angular cobbles of sandstone. Gravel is angular of sandstone.	0.60	53.53		
		N=17 (5,5,4,4,4,5)		Medium dense yellowish brown gravelly SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	1.00	53.13		
				Yellowish brown sandy GRAVEL. High content of angular cobbles of sandstone. Gravel is angular of sandstone.	1.60	52.53		
					1.75	52.38		
D	1.90m			Extremely weak brown orange weathered fine to coarse grained SANDSTONE interbedded with siltstone. Recovered as sandy GRAVEL of angular sandstone and siltstone.	2.00	52.13		
		50/245mm (10,13,13,12,18,7)		End of Window Sample at 2.00 m				

Remarks and Water Observations

1. Borehole terminated at 2.00m due to bedrock.
2. Groundwater not encountered.
3. Monitoring well installed as detailed above.

GL (mAOD)
54.13
Easting:
438382.53
Northing:
408225.78

Fig. No.
WS1

WINDOW SAMPLING RECORD

BH No. **WS2**
Sheet 1 of 1

Site: Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client: Barratt & David Wilson Homes

Dates: 23/09/2014

Method: Tracked window sampler

Scale 1:25

Logged By: GB | Checked By: JL

Driller: RP Drilling

SAMPLE DETAILS Type	Depth From - To(m)	(N) Shear vane	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well
J	0.20m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.				
					0.30	42.09		
J	0.40m			MADE GROUND: Reddish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone with rare coal and brick fragments.	0.50	41.89		
		N=14 (5,5,4,4,3,3)		Medium dense yellowish brown gravelly fine to coarse SAND. Low content of subangular cobbles of sandstone. Gravel is fine to coarse angular of sandstone.				
				Between 1.50m and 1.80m becoming clayey.				
D	1.90m							
		N=18 (4,3,4,5,4,5)						
					2.80	39.59		
		50/210mm (8,14,20,14,16)		Very weak yellowish brown weathered fine to coarse grained SANDSTONE recovered as slightly sandy GRAVEL of angular sandstone.	3.00	39.39		
				End of Window Sample at 3.00 m				

Remarks and Water Observations

1. Borehole terminated at 3.00m due to bedrock.
2. Groundwater not encountered.
3. Monitoring well installed as detailed above.

GL (mAOD) 42.39
Easting: 438415.29
Northing: 408121.05

Fig. No. WS2

WINDOW SAMPLING RECORD

BH No. **WS3**
Sheet 1 of 1

Site: Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client: Barratt & David Wilson Homes

Dates: 23/09/2014

Method: Tracked window sampler

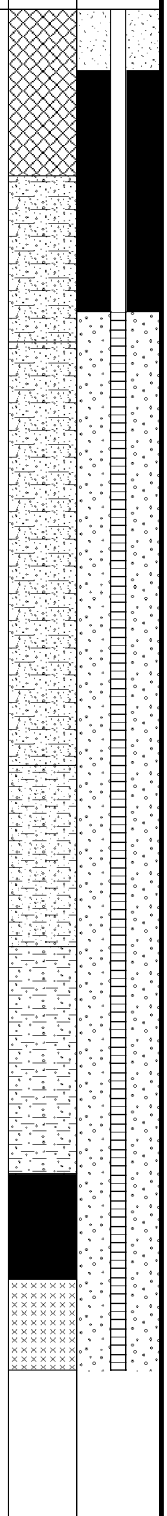
Scale 1:25

Logged By: GB | Checked By: JL

Driller: RP Drilling

SAMPLE DETAILS Type	Depth From - To(m)	(N) Shear vane	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD)
J	0.20m			MADE GROUND: TOPSOIL comprising friable light brown sandy SILT with roots and rootlets. Rare coal and brick fragments.		
				Redish brown slightly gravelly clayey SAND with occasional roots and rootlets. Gravel is angular of sandstone. Rare coal fragments.	0.55	36.98
J	1.00m	N=7 (1,1,1,2,2,2)		Loose yellowish brown clayey gravelly SAND with low cobble content of sandstone. Gravel is angular of sandstone.	1.10	36.43
		N=21 (6,6,5,5,6,5)		At 2.00m: Becoming medium dense.		
				Firm brown slightly sandy gravelly CLAY. Low plasticity (field description). Gravel is angular of sandstone and siltstone.	2.50	35.03
D	2.70m					
		N=14 (2,2,2,4,4,4)		From 3.00m rare coal fragments.		
				Firm medium strength light grey gravelly CLAY with rare relic rootlets. Low plasticity (field description). Gravel is fine angular siltstone.	3.10	34.43
D	3.40m					
				From 3.75m becoming stained black.		
				Very weak black COAL recovered as angular gravel.	3.85	33.68
J	4.00m	N=31 (4,3,6,7,1,17)				
				Very weak grey mottled orange thinly bedded SILTSTONE interbedded with fine sandstone. Recovered as slightly sandy GRAVEL of angular siltstone and sandstone.	4.20	33.33
D	4.30m					
D	4.45m - 4.82	50/240mm (13,12,16,24,10)				
				End of Window Sample at 4.50 m	4.50	33.03

Legend / Well



Remarks and Water Observations

1. Borehole terminated at 4.50m due to bedrock.
2. Groundwater not encountered.
3. Monitoring well installed as detailed above.

GL (mAOD) 37.53
Easting: 438467.85
Northing: 408040.44

Fig. No. WS3

WINDOW SAMPLING RECORD

BH No. **WS4**
Sheet 1 of 1

Site: Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client: Barratt & David Wilson Homes

Dates: 23/09/2014

Method: Tracked window sampler

Scale 1:25

Logged By: GB | Checked By: JL

Driller: RP Drilling

SAMPLE DETAILS Type	Depth From - To(m)	(N) Shear vane	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well
J	0.10m			MADE GROUND: TOPSOIL comprising friable light brown sandy SILT with roots and rootlets. Rare coal fragments.				
J	0.30m			Stiff medium strength orange/brown mottled light grey slightly sandy gravelly CLAY. Intermediate plasticity. Gravel is angular to sub-angular of sandstone.	0.26	55.30		
D	0.60m							
		N=15 (2,3,3,3,4,5)		From 1.00m becoming friable.				
				Extremely weak brown very thinly bedded SILTSTONE interbedded with mudstone. Recovered as slightly sandy clayey GRAVEL of angular siltstone and mudstone. Occasional iron stainnig and clayey along bedding fractures.	1.40	54.16		
D	1.80m							
		50/255mm (7,10,12,14,17 ,7)		End of Window Sample at 2.00 m	2.00	53.56		

Remarks and Water Observations

1. Borehole terminated at 2.00m due to bedrock.
2. Groundwater not encountered.
3. Monitoring well installed as detailed above.

GL (mAOD) 55.56
Easting: 438649.59
Northing: 408367.32

Fig. No. WS4

WINDOW SAMPLING RECORD

BH No. **WS5**
Sheet 1 of 1

Site: Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client: Barratt & David Wilson Homes

Dates: 23/09/2014

Method: Tracked window sampler

Scale 1:25

Logged By: GB | Checked By: JL

Driller: RP Drilling

SAMPLE DETAILS Type	Depth From - To(m)	(N) Shear vane	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well
J	0.10m			MADE GROUND: Grassed TOPSOIL comprising friable light brown sandy SILT with roots and rootlets. Rare coal fragments.	0.15	38.55		
J	0.30m			Stiff friable orange brown gravelly very sandy CLAY with rare cobbles. Low plasticity (field description). Gravel and cobbles are of angular sandstone.				
D	0.40m				0.60	38.10		
D	0.80m			Very stiff brown sandy gravelly CLAY. Low plasticity. Gravel is angular sandstone and siltstone.				
		N=18 (3,4,4,5,5,4)		Stiff high strength orange brown mottled light grey very sandy gravelly CLAY. Low plasticity (field description). Gravel is angular of sandstone and siltstone.	1.00	37.70		
D	1.80m			Extremely weak brown very thinly bedded SILTSTONE interbedded with mudstone. Recovered as slightly sandy clayey GRAVEL of angular siltstone and mudstone with frequent iron staining.	1.60	37.10		
		50/75mm (21,4,50)		End of Window Sample at 2.00 m	2.00	36.70		

Remarks and Water Observations

1. Borehole terminated at 2.00m due to bedrock.
2. Groundwater not encountered.
3. Monitoring well installed as detailed above.

GL (mAOD) 38.70
Easting: 438834.94
Northing: 408062.75

Fig. No. WS5

WINDOW SAMPLING RECORD

BH No. **WS6**
Sheet 1 of 1

Site: Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client: Barratt & David Wilson Homes

Dates: 23/09/2014

Method: Tracked window sampler

Scale 1:25

Logged By: GB | Checked By: JL

Driller: RP Drilling

SAMPLE DETAILS Type	Depth From - To(m)	(N) Shear vane	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.				
					0.24	35.26		
J	0.40m			Stiff friable grey mottled brown very sandy CLAY with roots and rootlets. Low plasticity (field description).				
					0.50	35.00		
D	0.70m			Stiff friable bluish grey grey mottled orangish brown very sandy CLAY. Low plasticity (field description).				
		N=17 (3,4,3,4,5,5)						
					1.10	34.40		
D	1.40m			Very stiff high strength brown slightly gravelly sandy CLAY with rare coal. Low plasticity. Gravel is angular to sub-angular of sandstone, siltstone and mudstone.				
					1.50	34.00		
D	1.90m			Stiff friable brown mottled grey gravelly sandy CLAY with rare black speckling (coal). Low plasticity (field description). Gravel is angular of siltstone and sandstone. From 1.70m becoming very gravelly.				
					1.95	33.55		
		50/105mm (5,12,24,26)		Extremely weak brown orange weathered fine to coarse SANDSTONE interbedded with siltstone. Recovered as sandy GRAVEL of sandstone and siltstone.	2.00	33.50		
				End of Window Sample at 2.00 m				

Remarks and Water Observations

1. Borehole terminated at 2.00m due to bedrock.
2. Groundwater not encountered.
3. Monitoring well installed as detailed above.

GL (mAOD) 35.50
Easting: 438904.49
Northing: 407994.71

Fig. No. WS6

WINDOW SAMPLING RECORD

BH No. **WS7**
Sheet 1 of 1

Site: Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client: Barratt & David Wilson Homes

Dates: 23/09/2014

Method: Tracked window sampler

Scale 1:25

Logged By: GB | Checked By: JL

Driller: RP Drilling

SAMPLE DETAILS Type	Depth From - To(m)	(N) Shear vane	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.				
J	0.30m			Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.25 0.35	41.75 41.65		
B	0.50m - 1.00			Dense yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.				
		N=35 (3,3,6,9,10,10)						
				Extremely weak orange brown weathered fine to coarse grained SANDSTONE recovered as sandy GRAVEL of angular sandstone .	1.75 1.85	40.25 40.15		
D	1.90m							
		50/40mm (25,50)		Very weak yellowish brown weathered SANDSTONE recovered as slightly sandy GRAVEL of angular sandstone.	2.00	40.00		
				End of Window Sample at 2.00 m				

Remarks and Water Observations

1. Borehole terminated at 2.00m due to bedrock.
2. Groundwater not encountered.
3. Monitoring well installed as detailed above.

GL (mAOD) 42.00
Easting: 438734.04
Northing: 407999.96

Fig. No. WS7

WINDOW SAMPLING RECORD

BH No. **WS8**
Sheet 1 of 1

Site: Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client: Barratt & David Wilson Homes

Dates: 23/09/2014

Method: Tracked window sampler

Scale 1:25

Logged By: GB | Checked By: JL

Driller: RP Drilling

SAMPLE DETAILS Type	Depth From - To(m)	(N) Shear vane	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well
J	0.20m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.	0.25	53.63		
J	0.40m			Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone. Rare coal fragments.	0.50	53.38		
		N=34 (5,6,8,9,9,8)		Yellowish brown slightly clayey gravelly fine to coarse SAND. Low content of angular to subangular cobbles of sandstone. Gravel is angular of sandstone.	1.00	52.88		
				Dense yellowish brown gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.	1.70	52.18		
		50/100mm (12,13,20,30)		Very weak orange mottled brown weathered fine to coarse grained SANDSTONE recovered as sandy GRAVEL of angular sandstone.	2.00	51.88		
				End of Window Sample at 2.00 m				

Remarks and Water Observations

1. Borehole terminated at 2.00m due to bedrock.
2. Groundwater not encountered.
3. Borehole backfilled with arisings upon completion.

GL (mAOD) 53.88
Easting: 438608.79
Northing: 408200.95

Fig. No. WS8

WINDOW SAMPLING RECORD

BH No. **WS9**
Sheet 1 of 1

Site: Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client: Barratt & David Wilson Homes

Dates: 23/09/2014

Method: Tracked window sampler

Scale 1:25

Logged By: GB | Checked By: JL

Driller: RP Drilling

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	(N) Shear vane		Description	Depth (m)	Level (mAOD)	Legend	Well
				MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Gravel is angular of coal.				
J	0.20m							
J	0.35m			Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone.	0.30	47.43		
					0.40	47.33		
D	0.80m			Yellowish brown clayey gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.				
		50/295mm (6,11,11,14,12 ,13)		Very weak brown orange weathered SANDSTONE recovered as slightly sandy GRAVEL of angular sandstone.	0.95	46.78		
					1.00	46.73		
				End of Window Sample at 1.00 m				

Remarks and Water Observations

1. Borehole terminated at 1.00m due to bedrock.
2. Groundwater not encountered.
3. Borehole backfilled with arisings upon completion.

GL (mAOD) 47.73
Easting: 438668.90
Northing: 408119.82

Fig. No. WS9

WINDOW SAMPLING RECORD

BH No. **WS10**
Sheet 1 of 1

Site: Carrs Lane, Cudworth, Barnsley

Contract No: C6138

Client: Barratt & David Wilson Homes

Dates: 23/09/2014

Method: Tracked window sampler

Scale 1:25

Logged By: GB | Checked By: JL

Driller: RP Drilling

SAMPLE DETAILS Type	Depth From - To(m)	(N) Shear vane	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well
J	0.10m			MADE GROUND: TOPSOIL comprising friable brown sandy SILT with roots and rootlets. Rare coal fragments.				
					0.30	46.86		
J	0.40m			Redish brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is angular of sandstone. Rare coal fragments.	0.50	46.66		
				Medium dense yellowish brown gravelly fine to coarse SAND. Low content of angular cobbles of sandstone. Gravel is angular of sandstone.				
		N=20 (2,3,4,5,5,6)						
				From 1.60m becoming slightly clayey.				
					1.90	45.26		
		50/230mm (5,6,8,10,22,10)		Very weak orange mottled brown weathered fine to coarse grained SANDSTONE recovered as slightly clayey slightly sandy GRAVEL of angular sandstone.	2.00	45.16		
				End of Window Sample at 2.00 m				

Remarks and Water Observations

1. Borehole terminated at 2.00m due to bedrock.
2. Groundwater not encountered.
3. Borehole backfilled with arisings upon completion.

GL (mAOD) 47.16
Easting: 438752.05
Northing: 408238.27

Fig. No. WS10

APPENDIX C

LABORATORY TEST RESULTS

PSL
Professional Soils Laboratory

LABORATORY REPORT

UKAS TESTING
4043

Contract Number: PSL14/4935

Client's Reference: Report Date: 07 October 2014

Client Name: Sirius Leeds
4245 Park Approach
Century Way
Thorpe Park
Leeds
LS15 8GB

For the attention of: Jenny Levitt

Contract Title: Carrs Lane Cudworth

Date Received: 1/10/2014
Date Commenced: 1/10/2014
Date Completed: 7/10/2014

Notes: **Opinions and Interpretations are outside the UKAS Accreditation**

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson (Director) | A Watkins (Director) | M Beastall (Laboratory Manager)

D Lambe (Senior Technician) | S Royle (Senior Technician)

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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
WS4		D	0.60	Brown mottled grey slightly gravelly sandy silty CLAY.
WS5		D	0.80	Brown gravelly very sandy CLAY.
WS6		D	1.40	Brown slightly gravelly very sandy CLAY.
TP15		D	2.00	Brown slightly gravelly sandy CLAY.
TP17		B	0.60-0.80	Brown gravelly clayey silty SAND.
TP27		B	0.60-0.80	Brown very gravelly slightly clayey SAND.
TP25		D	1.20	Brown slightly gravelly sandy silty CLAY.
TP35		B	0.40-0.60	Brown very sandy slightly clayey GRAVEL.

PSL
Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
	07/10/14		07/10/14		07/10/14

CARRS LANE, CUDWORTH.

Contract No: PSL14/4935

Client Ref: C61838