



May Gurney Limited  
 Geotechnical - Site Investigation  
 Ayton Road, Wyomondham, NR18 0RH  
 Tel: 01953 609856 Fax: 01953 609819  
 Web: www.maygurney.co.uk

## Window Sample Record

**WSD05**  
 Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Client: Entec UK Limited

Ground Level: 71.393m AOD

Contractors ID:

Engineer: Ed Gilligan

Coordinates: 459482.05E  
 220360.33N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results PID (ppm)	Installations
				Type	Depth (m)		
MADE GROUND: Brown slightly sandy clayey gravel with fragments of plastic, brick, suspected asbestos tile and concrete. Gravel is rounded to subrounded fine to coarse flint. Iron staining in clays. Abundant roots.		0.40	70.99	CS01	0.20-0.30	0.00	
MADE GROUND: Soft to firm grey-green slightly gravelly clay. Gravel is angular to subangular medium to coarse flint. Rare fragments of fine concrete - appears to be reworked natural. ... At 0.60mbgl strong organic odour and black pockets of organic matter. ... From 0.60m to 0.80mbgl slight hydrocarbon odour.		1.00	70.39	CS02	0.60-0.70	8.30	
Firm dark brown laminated CLAY with black organic material interbedded. Clay is fissile.		2.20	69.19	CS03	1.10-1.20	0.00	
Yellow-brown fine to coarse clayey SAND. Slight seepage.		2.30	69.09	C1	1.20-2.00		
Firm dark brown cemented and sandy CLAY / POSSIBLE MUDSTONE.		2.32	69.07	C2	2.00-2.30		
Window Sample Complete at 2.32 m							

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102 86	2.00 2.30			No Groundwater Encountered				

Client: Entec UK Limited  
 Engineer: Ed Gilligan  
 Date: 14/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: EG  
 Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
 2. Installation details: 32mm HDPE Standpipe installed from GL to 1.00mbgl. Plain pipe from GL to 0.50mbgl and a slotted pipe from 0.50m to 1.00mbgl. Hole backfilled with concrete from GL to 0.20mbgl, bentonite from 0.20m to 0.50mbgl, gravel from 0.50m to 1.00mbgl and bentonite from 1.00m to 2.30mbgl. Hole finished with a flush cover and gas tap.

Print Date: 22/09/2010



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# Window Sample Record

**WSD07**  
Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: Ed Gilligan

Ground Level: 70.755m AOD

Coordinates: 459520.96E  
220210.32N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results PID (ppm)	Installations
				Type	Depth (m)		
MADE GROUND: Brown slightly sandy slightly gravelly silt / clay with rare fragments of concrete. Abundant roots. Gravel is subangular to subrounded fine to coarse flint.		0.15	70.61				
Brown and orange-brown soft to firm slightly gravelly CLAY. gravel is subrounded fine to medium flint.				CS01	0.50-0.60	0.00	
...From 1.40mbgl becoming sandy with rare white subangular fine flint gravels.		1.50	69.26	C1	1.20-2.00		
Soft light grey and orange-brown mottled CLAY with white soft gypsum crystals and possible calcite.				CS02	1.60-1.70	0.00	
...At 2.00mbgl becoming soft to firm.		2.10	68.66	C2	2.00-3.00		
Firm dark grey-brown slightly silty CLAY with very rare red fine gravels and gypsum crystals.				C3	3.00-4.00		
		2.10	68.66				
				C4	4.00-5.00		
		3.50	67.26				
Firm to stiff dark grey SILT / CLAY.							
		3.50	67.26				
		5.00	65.76				

Window Sample Complete at 5.00 m

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	2.00		14/07/10	3.00	20	1.20	-	
86	3.00							
76	4.00							
66	5.00							

Client: Entec UK Limited  
Engineer: Ed Gilligan  
Date: 14/07/2010  
Plant: Terrier  
Drilled By: M. Earl  
Logged By: EG  
Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
2. Installation details: 32mm HDPE Standpipe installed from GL to 2.50mbgl. Plain pipe from GL to 1.50mbgl and a slotted pipe from 1.50m to 2.50mbgl. Hole backfilled with concrete from GL to 0.20mbgl, bentonite from 0.20m to 1.50mbgl, gravel from 1.50m to 2.50mbgl and bentonite from 2.50m to 5.00mbgl. Hole finished with a flush cover and gas tap.

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## Window Sample Record

**WSD09**  
 Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: James Ridehalgh

Ground Level: 73.168mAOD

Coordinates: 459549.01E  
 220475.38N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results PID (ppm)	Installations
				Type	Depth (m)		
MADE GROUND: Stiff brown sandy gravelly clay. Gravel is angular to subangular medium to coarse consisting of brick, chert, chalk, coal and ash.		0.50	72.67	CS01	0.30-0.50	0.00	
Dark brown firm slightly sandy CLAY with fine chalk gravel.				C1	1.20-2.00		
				C2	2.00-3.00		
				C3	3.00-4.00		
...From 3.80m to 4.50mbgl sand bands - slight seepage.				CS02	3.80-4.00	0.00	
...From 4.50mbgl becoming grey.				C4	4.00-5.00		
Window Sample Complete at 5.00 m		5.00	68.17				

### Water Level Observations

#### Drive Records

Diameter (mm)	To (m)	Recovery (%)	Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
102	2.00		15/07/10	4.50	-	-	-	
86	3.00							
76	4.00							
66	5.00							

Client: Entec UK Limited  
 Engineer: James Ridehalgh  
 Date: 15/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: JSR  
 Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
 2. Installation details: 32mm HDPE Standpipe installed from GL to 5.00mbgl. Plain pipe from GL to 3.00mbgl and a slotted pipe from 3.00m to 5.00mbgl. Hole backfilled with concrete from GL to 0.20mbgl, bentonite from 0.20m to 3.00mbgl and gravel from 3.00m to 5.00mbgl. Hole finished with a flush cover and gas tap.



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## Window Sample Record

**WSD11**  
 Sheet 1 of 1

Project: Bicester

Project ID: S11622  
 Contractors ID:

Client: Entec UK Limited  
 Engineer: James Ridehalgh

Ground Level: 71.857mAOD  
 Coordinates: 459624.03E  
 220604.49N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	PID (ppm)	Installations
				Type	Depth (m)			
MADE GROUND: Light brown sandy gravelly clay. Gravel is angular to subangular fine to coarse consisting of brick, concrete, chert, flint and chalk.		0.40	71.46	CS01	0.30-0.40	0.00		
Firm brown and orange-grey mottled sandy slightly gravelly CLAY. Gravel is angular fine to medium consisting of coal and chalk.		2.40	69.46	C1	1.20-2.00			
Firm brown laminated CLAY with sand bands - Slight seepage in sands.		3.10	68.76	CS02	2.90-3.10	0.00		
Firm brown laminated CLAY with white chalk mottling.		4.00	67.86	C3	3.00-4.00			
Window Sample Complete at 4.00 m								

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	2.00			No Groundwater Encountered				
86	3.00							
76	4.00							

Client: Entec UK Limited  
 Engineer: James Ridehalgh  
 Date: 15/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: JSR  
 Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
 2. Hole backfilled with arisings.



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## Window Sample Record

**WSD13**  
Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Client: Entec UK Limited

Ground Level: 72.479m AOD

Contractors ID:

Engineer: James Ridehalgh

Coordinates: 459530.94E

220604.96N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results PID (ppm)	Installations
				Type	Depth (m)		
<p>MADE GROUND (reworked natural): Stiff light brown-grey mottled slightly sandy slightly gravelly clay. Gravel is subangular to subrounded fine to coarse consisting of chalk, brick, ash / coal and chert.</p> <p>Soft to firm light brown-grey mottled slightly sandy slightly gravelly CLAY with rootlets. Gravel is subrounded medium chalk.</p>		0.35	72.13	CS01	0.10-0.30	0.00	
				C1	1.20-2.00		
				C2	2.00-3.00		
				CS02	2.50-2.80		
Firm brown-grey laminated CLAY with organic peat.		2.50	69.98	C3	3.00-4.00	0.00	
Firm brown laminated CLAY.		3.00	69.48				
Window Sample Complete at 4.00 m		4.00	68.48				

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	2.00			No Groundwater Encountered				
86	3.00							
76	4.00							

Client: Entec UK Limited  
Engineer: James Ridehalgh  
Date: 15/07/2010  
Plant: Terrier  
Drilled By: M. Earl  
Logged By: JSR  
Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
2. Hole backfilled with arisings.



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## Window Sample Record

**WSD15**  
 Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Client: Entec UK Limited

Ground Level: 71.432mAOD

Contractors ID:

Engineer: Sarah Pilkington

Coordinates: 459288.82E

220934.90N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	PID (ppm)	Installations
				Type	Depth (m)			
MADE GROUND: Dark brown slightly silty sandy gravel. Gravel is subangular to subrounded fine to coarse mixed lithologies (railway sidings).		0.50	70.93	CS01	0.40-0.50	0.00		
Soft to firm grey-brown CLAY.				C1	1.20-2.00			
				C2	2.00-3.00			
...At 2.40mbgl (<0.02m) sandy gravelly band. Gravel is subangular to subrounded fine to medium sandstone.		2.50	68.93					
Grey CLAY with highly weathered CHALK.		2.70	68.73					
Grey-yellow-brown CLAY with sand bands (0.05m). ...From 2.90m to 3.00mbgl grey staining.				CS02 C3	2.90-3.00 3.00-4.00	0.00		
Stiff grey slightly gravelly thinly laminated CLAY.		3.50	67.93					
Window Sample Complete at 4.00 m		4.00	67.43					

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102 86 76	2.00 3.00 4.00		13/07/10	3.50	-	-	-	

Client: Entec UK Limited

Engineer: Sarah Pilkington

Date: 13/07/2010

Plant: Terrier

Drilled By: M. Earl

Logged By: PILKS

Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
 2. Water level standing at 2.70mbgl upon completion.  
 3. Installation details: 32mm HDPE Standpipe installed from GL to 3.50mbgl. Plain pipe from GL to 2.70mbgl and a slotted pipe from 2.70m to 3.50mbgl. Hole backfilled with concrete from GL to 0.20mbgl, bentonite from 0.20m to 2.70mbgl, gravel from 2.70m to 3.50mbgl and bentonite from 3.50m to 4.00mbgl. Hole finished with a flush cover and gas tap.

Print Date: 21/09/2010



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## Window Sample Record

**WSD17**  
 Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: James Ridehalgh

Ground Level: 71.841mAOD

Coordinates: 459652.36E  
 220635.11N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	Installations
				Type	Depth (m)		
MADE GROUND: Dark brown sand and gravel. Gravel is angular to subangular medium to coarse consisting of concrete, limestone, wood, metal and ACM.		0.35	71.49	CS01	0.10-0.30	0.00	
Soft to firm brown-orange-grey mottled sandy CLAY.		0.60	71.24				
Soft brown-orange mottled sandy CLAY. ...From 0.60mbgl becoming darker in colour and rare sand.		1.40	70.44	C1	1.20-2.00		
Firm grey-orange mottled CLAY with highly weathered chalk veins.  ...From 2.00m to 2.10mbgl sand and gravel band. Slight seepage.		2.60	69.24	C2	2.00-3.00	0.00	
Brown-grey slightly sandy laminated CLAY with occasional gypsum crystals.		4.00	67.84	CS02 C3	2.80-3.00 3.00-4.00		
Window Sample Complete at 4.00 m							

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102 86 76	2.00 3.00 4.00		22/07/10	3.00	20	3.40	-	

Client: Entec UK Limited  
 Engineer: James Ridehalgh  
 Date: 22/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: JSR  
 Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
 2. Hole backfilled with arisings.



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## Trial Pit Record

## TPE02

Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Client: Entec UK Limited

Ground Level: 67.647m AOD

Engineer: John Tomalin

Coordinates: 457999.69E  
220509.07N

Orientation of Trial Pit:

Length: -      Width: -      Depth: 2.80

Sample / Test

Remarks and Test Results

### Description

Legend

Depth (m)

O.D. Level

Water

Type

Depth (m)

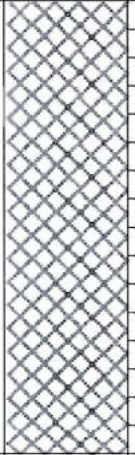
PID (ppm)

MADE GROUND: Brown-grey silty gravelly fine to medium sand. Gravel is angular fine to coarse brick, concrete and limestone.

...From 0.20mbgl excavated as a sandy angular fine to coarse clay gravel with occasional limestone and concrete gravel and cobbles. 5% rubble. Occasional sheet asbestos fragments.

...From 0.70mbgl abundant rubble, metal and occasional glass and plastic.

...From 1.30mbgl pockets of brown gravelly ash.



1.60

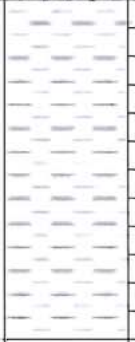
66.05

ES1

0.50

0.00

Stiff yellow-brown CLAY.



2.80

64.85

ES2

1.80

0.00

End of Trial Pit at 2.80 m

Client: Entec UK Limited  
 Engineer: John Tomalin  
 Contractor: May Gurney Geotechnical  
 Date: 15/07/2010  
 Plant: JCB

Logged By: J. Tomalin  
 Checked By: P. Lewin

#### Water Level Observations

Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)
No Groundwater Encountered			

Groundwater Remarks: No groundwater encountered throughout.

Remarks: Hole backfilled with arisings.

Hole Stability: Trial pit stable during excavation and on completion.

Print Date: 21/09/2010





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### Borehole Record

**BHE02**

Project: Bicester

Project ID: SI1622

Client : Entec UK Limited

Ground Level: 70.819m AOD

Engineer : James Ridehalgh

Coordinates: 459214.15E  
221017.16N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		SPT/CPT		Remarks and Test Results		Installations
				Type	Depth (m)	Casing Depth (m)	Water Depth (m)	SPT/H/WPP (Recovery)	PID (ppm)	
MADE GROUND (Reworked Natural): Stiff dark brown slightly sandy slightly gravelly clay. Gravel is subangular to subrounded fine to coarse consisting of chalk, brick and limestone.		0.40	70.42	CS01	0.20-0.40				0.00	
Firm light brown-grey mottled slightly sandy CLAY.				CS02	1.60-2.00				0.00	
...At 2.60mbgl becoming brown with orange mottling.		2.80	68.02							
Firm grey-blue slightly sandy laminated CLAY with shell fragments.				CS03	6.80-7.00				0.00	
Borehole Complete at 8.00 m		8.00	62.82							

Water Level Observations

Hole Diameter Detail			Chiseling Details			Date	Water Strike (m)	Standing Time (mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	Depth (m)	Casing Depth (m)	From (m)	To (m)	Time (hours)						
						14/07/10	1.60	-	-	-	3.00

Client: Entec UK Limited  
Engineer: James Ridehalgh  
Contractor: May Gurney Geotechnical  
Dates: 14/07/2010  
Plant: Dando  
Drilled By: T. York  
Logged By: JSR  
Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
2. Installation details: 50mm HDPE Standpipe installed from GL to 2.80mbgl. Plain pipe from GL to 0.50mbgl and a slotted pipe from 0.50m to 2.80mbgl. Hole backfilled with concrete from GL to 0.40mbgl, bentonite from 0.40m to 0.50mbgl, gravel from 0.50m to 2.80mbgl, bentonite from 2.80m to 4.00mbgl and arisings from 4.00m to 8.00mbgl. Hole finished with a flush cover and gas tap.



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## Window Sample Record

**WSE02**  
 Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Client: Entec UK Limited

Ground Level: 69.356m AOD

Contractors ID:

Engineer: James Ridehalgh

Coordinates: 458870.27E  
 221087.97N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	Installations
				Type	Depth (m)		
Brown sandy TOPSOIL.		0.10	69.26				
Firm brown-orange mottled sandy CLAY with rootlets.  ...From 0.70mbgl black fine coal gravel.		0.95	68.41	CS01	0.50-0.70	0.00	
Firm grey-orange mottled slightly sandy CLAY.		2.40	66.96	C2 CS02	2.00-3.00 2.10-2.30	0.00	
Firm brown slightly sandy laminated CLAY with occasional yellow weathered chalk laminations and gypsum crystals. ...From 2.50mbgl becoming sandy with occasional sand lenses.		3.50	65.86	C3	3.00-4.00		
Firm grey slightly sandy laminated CLAY.		4.00	65.36				
Window Sample Complete at 4.00 m							

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102 86 76	2.00 3.00 4.00			No Groundwater Encountered				

Client: Entec UK Limited  
 Engineer: James Ridehalgh  
 Date: 22/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: JSR  
 Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
 2. Installation details: 32mm HDPE Standpipe installed from GL to 2.50mbgl. Hole backfilled with bentonite from GL to 1.00mbgl, gravel from 1.00m to 2.50mbgl and bentonite from 2.50m to 4.00mbgl. Hole finished with a flush cover and gas tap.

Print Date: 22/09/2010



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## Window Sample Record

**WSE04**  
Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: James Ridehalgh

Ground Level: 71.531m AOD  
Coordinates: 458758.19E  
221009.21N

Description	Legend	Depth (m)	O. D. Level (m)	Sample Test		Remarks and Test Results	PID (ppm)	Installations
				Type	Depth (m)			
MADE GROUND (TOPSOIL): Stiff brown sandy slightly gravelly clay. Gravel is angular to subangular fine to medium consisting of sandstone, brock and concrete.		0.20	71.33	CS01	0.20-0.40		0.00	
MADE GROUND: Stiff light brown sandy slightly gravelly clay. Gravel is angular to subangular medium to coarse consisting of brick, ash, sandstone and concrete.		0.40	71.13					
Firm brown-grey-orange mottled sandy CLAY. ...From 0.80mbgl becoming darker.		1.50	70.03	C1	1.20-2.00			
Firm grey-orange mottled slightly sandy CLAY.		1.50	70.03	CS02	1.60-1.80	0.00		
...From 2.40m to 2.50mbgl sand bands with fine gypsum crystals.		2.50	69.03	C2	2.00-3.00			
Firm brown slightly sandy laminated CLAY with yellow highly weathered chalk laminations.  ...From 3.20mbgl gypsum crystals.		4.00	67.53	C3	3.00-4.00			
Window Sample Complete at 4.00 m		4.00	67.53					

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	2.00			No Groundwater Encountered				
86	3.00							
86	4.00							

Client: Entec UK Limited  
Engineer: James Ridehalgh  
Date: 21/07/2010  
Plant: Terrier  
Drilled By: M. Earl  
Logged By: JSR  
Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl (21.07.10) and window sampler completed (22.07.10).  
2. Installation details: 32mm HDPE Standpipe installed from GL to 2.50mbgl. Plain pipe from GL to 0.50mbgl and a slotted pipe from 0.50m to 2.50mbgl. Hole backfilled with bentonite from GL to 0.50mbgl, gravel from 0.50m to 2.50mbgl and bentonite from 2.50m to 4.00mbgl. Hole finished with a flush cover and gas tap.

Print Date: 22/09/2010



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Tel: 01953 609856 Fax: 01953 609819  
Web: www.maygurney.co.uk

## Window Sample Record

**WSE06**  
Sheet 1 of 1

Project: Bicester

Project ID: S11622

Contractors ID:

Client: Entec UK Limited

Engineer: James Ridehalgh

Ground Level: 69.369m AOD

Coordinates: 458157.52E  
220429.90N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	Installations
				Type	Depth (m)		
MADE GROUND (TOPSOIL): Brown sandy clay with rootlets and occasional cobbles of concrete.		0.10	69.27				
MADE GROUND: Brown-orange-grey mottled sandy slightly gravelly clay. Gravel is angular medium to coarse consisting of brick and concrete.		0.50	68.87	CS01	0.30-0.50	0.00	
Firm light brown and grey-orange mottled sandy slightly gravelly CLAY. Gravel is angular fine consisting of sandstone.		1.20	68.17	C1	1.20-2.00		
Firm light brown-orange mottled CLAY with organic laminations.		2.20	67.17	C2	2.00-3.00		
Firm grey-brown laminated CLAY with yellow weathered chalk laminations and occasional gypsum crystals.		3.30	66.07	CS02	2.80-3.00	0.00	
Firm grey sandy laminated CLAY with occasional gypsum crystals and thin brown sand bands.		4.00	65.37	C3	3.00-4.00		
Window Sample Complete at 4.00 m							

### Water Level Observations

#### Drive Records

Diameter (mm)	To (m)	Recovery (%)	Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
102	2.00			No Groundwater Encountered				
86	3.00							
76	4.00							

Client: Entec UK Limited  
Engineer: James Ridehalgh  
Date: 20/07/2010  
Plant: Terrier  
Drilled By: M. Earl  
Logged By: JSR  
Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
2. Hole backfilled with arisings.

Print Date: 22/09/2010



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## Window Sample Record

**WSE08**  
Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: James Ridehalgh

Ground Level: 69.000m AOD  
Coordinates: 458145.79E  
220394.06N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	PID (ppm)	Installations
				Type	Depth (m)			
MADE GROUND: Dark brown sandy gravelly clay with orange mottling. Gravel is angular to subangular fine to coarse consisting of concrete, brick, chalk and limestone.		0.25	68.75	CS01	0.40-0.60		0.00	
MADE GROUND: Yellow-brown sandy gravel. Gravel is angular to subangular fine to coarse consisting of concrete, brick and limestone. Occasional cobbles of concrete.		0.70	68.30	CS02	0.70-0.90		0.00	
Soft to firm grey-orange mottled slightly sandy CLAY with occasional black staining in initial layer.		1.35	67.65	C1	1.20-2.00			
Soft brown-orange sandy laminated CLAY with organic deposits in laminations and fine gypsum crystals.		1.90	67.10	CS03	1.60-1.80		0.00	
Firm brown-grey laminated CLAY with yellow and brown laminations and fine to medium gypsum crystals.		3.15	65.85	C2	2.00-3.00			
Firm grey sandy laminated CLAY with occasional gypsum crystal.		4.00	65.00	C3	3.00-4.00			
Window Sample Complete at 4.00 m								

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	2.00			No Groundwater Encountered				
86	3.00							
76	4.00							

Client: Entec UK Limited  
Engineer: James Ridehalgh  
Date: 20/07/2010  
Plant: Terrier  
Drilled By: M. Earl  
Logged By: JSR  
Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
2. Installation details: 32mm HDPE Standpipe installed from GL to 1.30mbgl. Plain pipe from GL to 0.30mbgl and a slotted pipe from 0.30m to 1.30mbgl. Hole backfilled with bentonite from GL to 0.30mbgl, gravel from 0.30m to 1.30mbgl and bentonite from 1.30m to 4.00mbgl. Hole finished with a flush cover and gas tap.



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## Window Sample Record

**WSE10**  
Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: James Ridehalgh

Ground Level: 68.326m AOD

Coordinates: 458119.11E  
220340.83N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results PID (ppm)	Installations
				Type	Depth (m)		
MADE GROUND: Stiff brown sandy gravelly clay with occasional concrete and cobbles. Gravel is angular to subangular fine to coarse consisting of concrete, brick, ACM and limestone.		0.35	67.98	CS01	0.10-0.30	0.00	
MADE GROUND: Soft brown-orange mottled sandy slightly gravelly clay. Gravel is fine black ash.		0.50	67.83	CS02	0.70-0.90	0.00	
MADE GROUND: Black sandy ash and gravel - slight hydrocarbon odour.		0.90	67.43				
Soft grey sandy CLAY with black staining.		1.70	66.63	C1	1.20-2.00		
Firm brown and orange-grey mottled sandy CLAY.		3.00	65.33	C2	2.00-3.00		
Soft orange SAND.		3.30	65.03				
Firm grey-brown-orange mottled sandy CLAY.		4.00	64.33	CS03 C3	3.00-3.30 3.00-4.00	0.00	
Window Sample Complete at 4.00 m							

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	2.00		20/07/10	4.00	20	2.60	-	
86	3.00							
76	4.00							

Client: Entec UK Limited  
Engineer: James Ridehalgh  
Date: 20/07/2010  
Plant: Terrier  
Drilled By: M. Earl  
Logged By: JSR  
Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
2. Water level standing at 2.60mbgl upon completion.  
3. Installation details: 32mm HDPE Standpipe installed from GL to 3.50mbgl. Plain pipe from GL to 1.50mbgl and a slotted pipe from 1.50m to 3.50mbgl. Hole backfilled with bentonite from GL to 1.50mbgl, gravel from 1.50m to 3.50mbgl and bentonite from 3.50m to 4.00mbgl. Hole finished with a flush cover and gas tap.

Print Date: 22/09/2010



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## Window Sample Record

**WSE12**  
 Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: James Ridehalgh

Ground Level: 69.048m AOD

Coordinates: 458167.76E  
 220327.38N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	PID (ppm)	Installations
				Type	Depth (m)			
MADE GROUND: Stiff brown sandy slightly gravelly clay. Gravel is angular to subangular fine to coarse consisting of coal, ash, ACM, brick and concrete.		0.40	68.65	CS01	0.10-0.30		0.00	
Soft brown-orange-grey mottled slightly sandy CLAY.		1.30	67.75	C1	1.20-2.00			
Soft to firm brown-orange laminated CLAY with organic brown laminations.		2.00	67.05	CS02 C2	2.00-2.30 2.00-3.00		0.00	
Firm brown laminated slightly sandy CLAY with yellow laminations.		3.50	65.55	C3	3.00-4.00			
Firm to stiff grey laminated CLAY with shell fossils.		4.00	65.05					
Window Sample Complete at 4.00 m								

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	2.00			No Groundwater Encountered				
86	3.00							
76	4.00							

Client: Entec UK Limited  
 Engineer: James Ridehalgh  
 Date: 21/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: JSR  
 Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
 2. Hole backfilled with arisings.



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## Window Sample Record

**WSE14**  
 Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: James Ridehalgh

Ground Level: 67.368m AOD  
 Coordinates: 458109.76E  
 220270.42N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	Installations
				Type	Depth (m)		
MADE GROUND: Brown very sandy very gravelly clay. Gravel is medium to coarse angular to subangular consisting of ash, limestone, clinker and concrete.				CS01	0.40-0.70	0.00	
Firm brown-orange mottled very sandy CLAY with fine gypsum crystals.		0.80	66.57	C1	0.80-1.00		
				C2	1.00-2.00		
Firm brown-orange-grey mottled sandy CLAY.		1.40	65.97				
				C3	2.00-3.00		
Firm brown-grey laminated slightly sandy CLAY with dark brown and yellow laminations.		2.20	65.17	CS02	2.40-2.60	0.00	
				CS03	2.60-2.80		
				C4	3.00-4.00		
Firm grey laminated CLAY with occasional coarse mudstone gravel and fine gypsum crystals.		3.40	63.97				
Window Sample Complete at 4.00 m		4.00	63.37				

### Water Level Observations

#### Drive Records

Diameter (mm)	To (m)	Recovery (%)	Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
102	1.00			No Groundwater Encountered				
86	2.00							
76	3.00							
66	4.00							

Client: Entec UK Limited  
 Engineer: James Ridehalgh  
 Date: 21/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: JSR  
 Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 0.80mbgl.  
 2. Hole backfilled with arisings.





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## Window Sample Record

**WSE16**  
 Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: Sarah Pilkington

Ground Level: 70.637mAOD  
 Coordinates: 459203.45E  
 221020.48N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	PID (ppm)	Installations
				Type	Depth (m)			
MADE GROUND: Grass over light brown mottled orange and grey slightly gravelly clay with occasional fine rootlets. Gravel is subrounded to subangular fine to coarse sandstone and mudstone.				CS01	0.50-0.60		0.00	
PIPE IN SOUTH OF PIT RUNNING APPROX EAST TO WEST (40 - 50mm black plastic).		0.70 0.80	69.94 69.84					
Soft to firm slight gravelly orange-grey CLAY. Gravel is subangular fine mudstone. Occasional wood.				CS02 C1	1.20-1.40 1.20-2.00		0.00	
...From 1.50mbgl becoming laminated.				C2	2.00-3.00			
...From 3.00mbgl shell gypsum gravel.				C3	3.00-4.00			
...From 3.50mbgl becoming grey and stiff.				C4	4.00-5.00			
...From 4.50mbgl becoming very stiff.								
Window Sample Complete at 5.00 m		5.00	65.64					

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	2.00			No Groundwater Encountered				
86	3.00							
76	4.00							
66	5.00							

Client: Entec UK Limited  
 Engineer: Sarah Pilkington  
 Date: 13/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: PILKS  
 Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
 2. Hole backfilled with arisings.



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## Window Sample Record

**WSE18**  
 Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Client: Entec UK Limited

Ground Level: 67.178m AOD

Contractors ID:

Engineer: James Ridehalgh

Coordinates: 458893.53E  
 221299.15N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results <small>PID (ppm)</small>	Installations
				Type	Depth (m)		
MADE GROUND (Reworked Natural): Brown-orange sandy slightly gravelly clay. Gravel is medium to coarse angular to subangular consisting of limestone, wood and concrete.		0.30	66.88				
Soft light brown-grey-orange CLAY.		0.60	66.58				
Window Sample Complete at 0.60 m							

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
				No Groundwater Encountered				

Client: Entec UK Limited  
 Engineer: James Ridehalgh  
 Date: 15/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: JSR  
 Checked By: P. Lewin

Remarks: 1. Hole abandoned at 0.60mbgl due to time restraints.  
 2. Hole backfilled with arisings.



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## Window Sample Record

**WSE20**  
 Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: James Ridehalgh

Ground Level: 66.352m AOD

Coordinates: 457912.10E  
 220551.03N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	PID (ppm)	Installations
				Type	Depth (m)			
MADE GROUND: Stiff brown sandy gravelly clay. Gravel is angular to subangular medium to coarse consisting of sandstone, clinker, ash, brick and concrete.		0.40	65.95	C1	0.00-1.00	0.00		
				CS01	0.20-0.40			
MADE GROUND: Light brown clayey sandy gravel. Gravel is angular to subangular fine to coarse consisting of concrete and limestone.		1.00	65.35	C2	1.00-2.00			
VOID SPACES AND NO RETURN FROM CORE BAND.				C3	2.00-3.00			
				C4	3.00-4.00			
MADE GROUND: Light brown sandy gravel. Gravel is angular to subangular fine to coarse consisting of concrete, limestone and glass.		3.40	62.95	CS02	3.40-3.60	0.00		
Wet firm light brown gravelly SAND. Gravel is subangular to subrounded fine to medium consisting of chert and limestone.				C5	4.00-5.00			
Firm to stiff grey slightly sandy laminated		4.80	61.55					
Continued next sheet		5.00	61.35					

### Water Level Observations

#### Drive Records

Diameter (mm)	To (m)	Recovery (%)	Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
102	1.00		22/07/10	4.00	-	-	-	
86	2.00							
76	3.00							
66	4.00							
56	5.00							

Client: Entec UK Limited  
 Engineer: James Ridehalgh  
 Date: 22/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: JSR  
 Checked By: P. Lewin

Remarks: 1. No installation as hole collapsed.  
 2. Hole backfilled with arisings.



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# Window Sample Record

**WSE21**  
Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Client: Entec UK Limited

Ground Level: 67.071m AOD

Contractors ID:

Engineer: James Ridehalgh

Coordinates: 457959.46E  
220486.65N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results PID (ppm)	Installations
				Type	Depth (m)		
MADE GROUND: Firm brown-orange sandy slightly gravelly clay. Gravel is angular to subangular fine to coarse consisting of clinker and ash.		0.60	66.47	C1	0.00-1.00		
MADE GROUND: Brown sand and gravel. Gravel is angular to subangular medium to coarse consisting of concrete and limestone.		0.80	66.27	CS01	0.85-0.95	0.00	
MADE GROUND: Black burnt ash gravel band.		0.85	66.22				
MADE GROUND: Grey-brown ash gravel with coarse pieces of clinker.		0.95	66.12	C2	1.00-2.00		
Stiff brown slightly sandy slightly gravelly CLAY. Gravel is subangular medium limestone.		1.00	66.07				
Loose light brown SAND and GRAVEL. Gravel is subangular to subrounded fine to medium consisting of limestone, chalk and chert.		1.90	65.17	CS02	1.60-1.90	0.00	
MUDSTONE COBBLE.		2.00	65.07				
Window Sample Complete at 2.00 m							

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102 86	1.00 2.00			No Groundwater Encountered				

Client: Entec UK Limited  
Engineer: James Ridehalgh  
Date: 22/07/2010  
Plant: Terrier  
Drilled By: M. Earl  
Logged By: JSR  
Checked By: P. Lewin

Remarks: 1. Hole abandoned at 2.00mbgl as window sampling techniques unable to progress.  
2. Installation details: 32mm HDPE Standpipe installed from GL to 2.00mbgl. Plain pipe from GL to 0.50mbgl and a slotted pipe from 0.50m to 2.00mbgl. Hole backfilled with bentonite from GL to 0.50mbgl and gravel from 0.50m to 2.00mbgl. Hole finished with a flush cover and gas tap.



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## Window Sample Record

**WSE23**  
 Sheet 1 of 1

Project: Bicester

Project ID: S11622

Client: Entec UK Limited

Ground Level: 66.973m AOD

Contractors ID:

Engineer: James Ridehalgh

Coordinates: 458097.15E  
 220638.59N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	PID (ppm)	Installations
				Type	Depth (m)			
MADE GROUND: Stiff brown sandy gravelly clay. Gravel is angular to subangular medium to coarse consisting of brick, concrete and ash.		0.70	66.27	C1	0.00-1.00		0.00	
				CS01	0.30-0.50			
MADE GROUND: Dark brown-black sand and gravel. Gravel is angular to subangular fine to coarse brick, ash and clinker.		1.00	65.97	CS02	0.70-1.00		0.00	
				C2	1.00-2.00			
Firm brown-orange very sandy CLAY.		2.00	64.97	CS03	1.20-1.40		0.00	
Firm grey-orange mottled sandy CLAY.				C3	2.00-3.00			
Firm brown slightly sandy laminated CLAY with highly weathered yellow chalk laminations and fine gypsum crystals.		3.10	63.87	C4	3.00-4.00			
Firm grey slightly sandy laminated CLAY with occasional gypsum crystals.		3.80	63.17					
Window Sample Complete at 4.00 m		4.00	62.97					

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	1.00			No Groundwater Encountered				
86	2.00							
76	3.00							
66	4.00							

Client: Entec UK Limited  
 Engineer: James Ridehalgh  
 Date: 23/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: JSR  
 Checked By: P. Lewin

Remarks: 1. Installation details: 32mm HDPE Standpipe installed from GL to 1.00mbgl. Plain pipe from GL to 0.50mbgl and a slotted pipe from 0.50m to 1.00mbgl. Hole backfilled with bentonite from GL to 0.50mbgl, gravel from 0.50m to 1.00mbgl and bentonite from 1.00m to 4.00mbgl.



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## Window Sample Record

**WSE25**  
Sheet 1 of 1

Project: Bicester

Project ID: SI1622

Contractors ID:

Client: Entec UK Limited

Engineer: James Ridehalgh

Ground Level: 66.219m AOD

Coordinates: 458138.02E  
221060.90N

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	Installations
				Type	Depth (m)		
Brown sandy TOPSOIL with rootlets.		0.20	66.02	C1	0.00-1.00		
Brown-orange mottled sandy slightly gravelly CLAY. Gravel is angular fine consisting of coal.		0.50	65.72	CS01	0.20-0.50	0.00	
Firm grey-orange mottled sandy CLAY.				C2	1.00-2.00		
...From 1.30m to 1.60mbgl becoming increasingly sandy.				CS02	1.30-1.60	0.00	
Firm brown slightly sandy laminated CLAY with highly weathered yellow chalk laminations and fine gypsum crystals.		1.60	64.62	C3	2.00-3.00		
Firm grey slightly sandy laminated CLAY with occasional shell fossils - becoming increasingly sandy with depth.		2.60	63.62	C4	3.00-4.00		
				C5	4.00-5.00		
Soft to firm grey-blue clayey SAND.		4.40	61.82				
		5.00	61.22				

Window Sample Complete at 5.00 m

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	1.00			No Groundwater Encountered				
86	2.00							
76	3.00							
66	4.00							
56	5.00							

Client: Entec UK Limited  
Engineer: James Ridehalgh  
Date: 23/07/2010  
Plant: Terrier  
Drilled By: M. Earl  
Logged By: JSR  
Checked By: P. Lewin

Remarks: 1. Installation details: 32mm HDPE Standpipe installed from GL to 5.00mbgl. Plain pipe from GL to 4.00mbgl and a slotted pipe from 4.00m to 5.00mbgl. Hole backfilled with bentonite from GL to 4.00mbgl and gravel from 4.00m to 5.00mbgl. Hole finished with a flush cover and gas tap.



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## Window Sample Record

**WSE27**  
 Sheet 1 of 1

Project: Bicester

Project ID: S11622

Contractors ID:

Client: Entec UK Limited

Engineer: Sarah Pilkington

Ground Level:  
 Coordinates:

Description	Legend	Depth (m)	O.D. Level (m)	Sample Test		Remarks and Test Results	PID (ppm)	Installations
				Type	Depth (m)			
MADE GROUND: Light brown mottled orange and grey slightly sandy slightly gravelly clay, with fine rootlets and occasional cobbles. Gravel is subrounded fine to coarse flint and occasional cobbles of sandstone.		0.60		CS01	0.50-0.60	0.00		
Soft to firm slightly gravelly orange-grey CLAY. Gravel is subangular fine mudstone.				C1	1.20-2.00			
...From 1.50mbgl becoming firm and laminated.				C2	2.00-3.00			
...From 1.90mbgl becoming stiff and brown.				C3	3.00-4.00			
...From 3.50mbgl becoming stiff to very stiff and grey.		4.00						
Window Sample Complete at 4.00 m								

### Water Level Observations

Drive Records			Date	Water Strike (m)	Standing Time (Mins)	Standing Level (m)	Casing Depth (m)	Depth Sealed (m)
Diameter (mm)	To (m)	Recovery (%)						
102	2.00			No Groundwater Encountered				
86	3.00							
86	4.00							

Client: Entec UK Limited  
 Engineer: Sarah Pilkington  
 Date: 13/07/2010  
 Plant: Terrier  
 Drilled By: M. Earl  
 Logged By: PILKS  
 Checked By: P. Lewin

Remarks: 1. Starter pit dug from GL to 1.20mbgl.  
 2. Installation details: 32mm HDPE Standpipe installed from GL to 0.60mbgl. Plain pipe from GL to 0.30mbgl and a slotted pipe from 0.30m to 0.60mbgl. Hole backfilled with bentonite from GL 0.30mbgl, gravel from 0.30m to 0.60mbgl and bentonite from 0.60m to 4.00mbgl. Hole finished with a flush cover and gas tap.